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MINERAL INDUSTRY SURVEYS

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

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JUNE 1973

PETROLEUM PRODUCTS SURVEY
NO. 80

MOTOR GASOLINES, WINTER 1972-1973

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MOTOR GASOLINES, WINTER 1972-73

by

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INTRODUCTION

The properties of motor fuels sold through service stations in the United States are reported in accordance with a cooperative agreement between the American Petroleum Institute and the Bureau of Mines of the United States Department of the Interior. By agreement with the American Petroleum Institute, identification of the data by item number is confidential.

This report presents analytical data for 4,931 samples that represent the products of 55 companies. Company representatives collected the samples during December 1972 and January and February 1973. As in previous surveys, the gasolines covered by this survey include those from both large and small suppliers. Laboratories of various refiners and chemical companies obtained and submitted the data to the Bureau of Mines for analysis and compilation. Motor-gasoline survey reports published during the past 10 years are listed on page 5.

Analytical tests required for a complete gasoline analysis were not available for many of the samples. Tests in this category, the number of test results available and used in this report, and the percent of the total samples represented for that test include the following:

Test	Number of samples used	Percent of total samples
Gravity	3,998	81
Sulfur content	1,387	28
Phosphorus	524	11
Lead content	3,723	76
Distillation	2,964	60
Vapor pressure	2,963	60

SUMMARY

The characteristics of motor gasolines for winter 1972-73 are summarized in table 1, and for comparison, those for winter 1971-72 are shown in table 2. Trends of some of the more important characteristics for several years are shown in figures 1 and 2. The tabulated data below show trends of national average octane numbers for the last four gasoline surveys.

	Regular-price			Premium-price		
	Octane number			Octane number		
	Research	Motor	(R+M)/2	Research	Motor	(R+M)/2
Summer 1971	94.0	86.3	90.2	99.8	92.3	96.1
Winter 1971-72	94.0	86.5	90.3	99.8	92.3	96.1
Summer 1972	94.1	86.4	90.3	99.8	92.2	96.0
Winter 1972-73	93.9	86.4	90.2	99.6	92.2	95.9

Tables 3 and 4 show regional average octane numbers of regular- and premium-price fuels including the sum of the research and motor octane numbers divided by two.

Data for third grade (sub-regular), intermediate grade, and super-premium gasolines are included in table 5.

Table 6 lists all the low-lead samples (0.08-0.50 g/gal) within each district. The unleaded gasolines (0.00-0.07 g/gal) are given in table 7.

DISCUSSION OF DATA

Terms used in the surveys have the following meanings:

District: The designation of a marketing area for collecting samples and data. The present arrangement of 17 districts, developed by the CFR Committee 1/, was selected with reference to the specifications on motor gasolines, refinery locations, population centers, and arteries of commerce such as navigable rivers. The states or parts of states in each district are indicated in the headings of table 3 and are shown in figure 5.

Brand: The gasoline sold within a given price group and by a given trade name.

Item: The index number assigned to a given brand in a given district. The data for each item represent the average of those submitted for that brand in that district. The number of samples represented follows the item number.

Sample: The supply of gasoline obtained at the service station and analyzed in the laboratory.

1/ Coordinating Fuel and Equipment Research Committee (formerly the Coordinating Fuel Research Committee) of the Coordinating Research Council, Inc. From 1935 to 1948 the motor-gasoline surveys were conducted under a cooperative agreement between the coordinating Research Council and the Bureau of Mines.

Table 3 presents the following data by districts: gravity in degrees API, sulfur, gum, phosphorus, lead, research- and motor-method octane numbers, the calculated property of the sum of research and motor octane numbers divided by two, Reid vapor pressure, and distillation characteristics of the motor fuels collected. The tests were made according to American Society for Testing and Materials standards. 2/ Phosphorus data, presented quantitatively as grams per gallon, are available for the first time with this current report in tables 1 through 7.

Corrosion test results are not included in the district tables as all the reported numbers are "1," according to the corrosion scale given in table 1 of ASTM D130. 2/

Gum test data are reported to the nearest whole number. The distillation temperatures, corrected to barometric pressure at 760 mm Hg, are those for percent evaporated.

Average values follow the tabulated data in table 3 for the respective grades of fuel shown in each district. The averages of the various properties were computed without reference to the total number of samples represented by each item.

The district averages from table 3 are shown in table 4 with the number of brands and number of samples for regular- and premium-price gasoline in each district. The national averages for each of the properties of fuels sold in each of the 17 districts are given at the end of the table.

Table 5 shows data for third grade (sub-regular), intermediate grade, and super-premium motor gasolines. Tables 6 and 7 represent special listings of the samples according to lead content. Table 6 lists the low-lead samples (0.08-0.50 g/gal) and table 7 lists the unleaded samples (0.00-0.07 g/gal).

2/ American Society for Testing and Materials, 1972 Annual Book of ASTM Standards, Part 17, Petroleum Products — Fuels; Solvents; Burner Fuel Oils; Lubricating Oils, Cutting Oils; Lubricating Greases; Hydraulic Fluids, Philadelphia, Pa., 1,236 pp.

Figures 1 and 2 illustrate trends in the national averages of certain properties of regular- and premium-price gasolines, respectively, since the summer of 1946. Averages for the winter surveys are plotted on the lines that represent the years and for the summer surveys between the lines. Octane-number points are connected for successive surveys, but those for Reid vapor pressure and distillation temperatures are plotted separately for summer and winter surveys. Charts that show plots of these properties from 1935 (except winter 1941-42 and summer 1942) are presented in the survey report on motor gasolines for winter 1964-65 and preceding reports. 3/

Figures 3 and 4 illustrate distribution (frequency) of octane values by numbers of samples for all grades of fuel represented. Each bar represents one-half octane number.

Tables 8 and 9 show the percentages of all samples for each district at each whole octane number level, cumulated according to increasing octane number.

The districts, locations, and number of samples of gasoline represented are listed in table 10 and shown on the map in figure 5. The locations are named for the principal cities in the respective vicinities, and include suburbs and adjacent communities. The area of the circle at each location is proportional to the number of samples obtained. The summary at the end of table 10 lists by district, the number of locations, samples, and the percentages of the latter based on the total reported.

This report does not discuss the significance of the data presented. Reference may be made to the ASTM specification 4/ for motor gasoline and its appendixes, "Significance of ASTM Specifications for Motor Gasoline," at a technical library.

3/ Blade, O. C., Motor Gasolines, Winter 1964-65. Bureau of Mines Petroleum Products Survey No. 40, 38 pp. (in cooperation with the American Petroleum Institute).

4/ American Society for Testing and Materials, Standard Specifications for Gasoline (D439): 1972 Annual Book of ASTM Standards, Part 17 (see footnote 2), pp. 169-180.

LIST OF MOTOR-GASOLINE SURVEY REPORTS, 1963-73

Author	Season and Year	PPS Report No.	Published	No. of Pages
In cooperation with the American Petroleum Institute				
Blade, O. C.	Winter 1963-64	35	June 1964	40
Do.	Summer 1964	37	Dec. 1964	40
Do.	Winter 1964-65	40	July 1965	38
Do.	Summer 1965	43	Jan. 1966	39
Do.	Winter 1965-66	45	June 1966	38
Do.	Summer 1966	48	Dec. 1966	38
Do.	Winter 1966-67	50	June 1967	38
Do.	Summer 1967	53	Dec. 1967	38
Do.	Winter 1967-68	55	June 1968	39
Do.	Summer 1968	58	Jan. 1969	38
Do.	Winter 1968-69	60	July 1969	38
Blade, O.C. and Ella Mae Shelton	Summer 1969	63	Jan. 1970	38
Shelton, Ella Mae and C.M. McKinney	Winter 1969-70	66	Aug. 1970	47
Do.	Summer 1970	68	Jan. 1971	49
Do.	Winter 1970-71	70	June 1971	54
Shelton, Ella Mae	Summer 1971	73	Jan. 1972	59
Do.	Winter 1971-72	75	June 1972	53
Do.	Summer 1972	78	Jan. 1973	53
Do.	Winter 1972-73	This report		

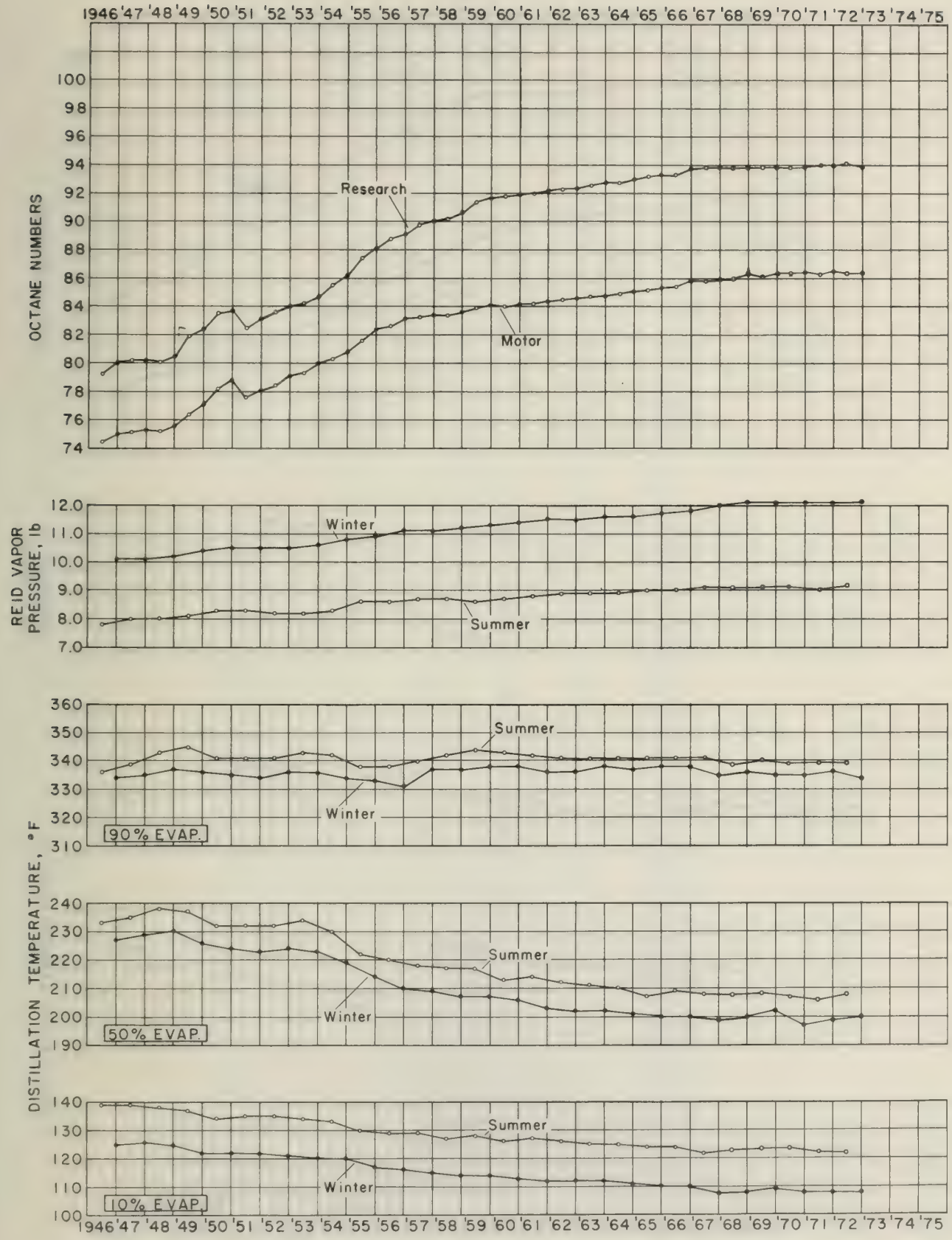


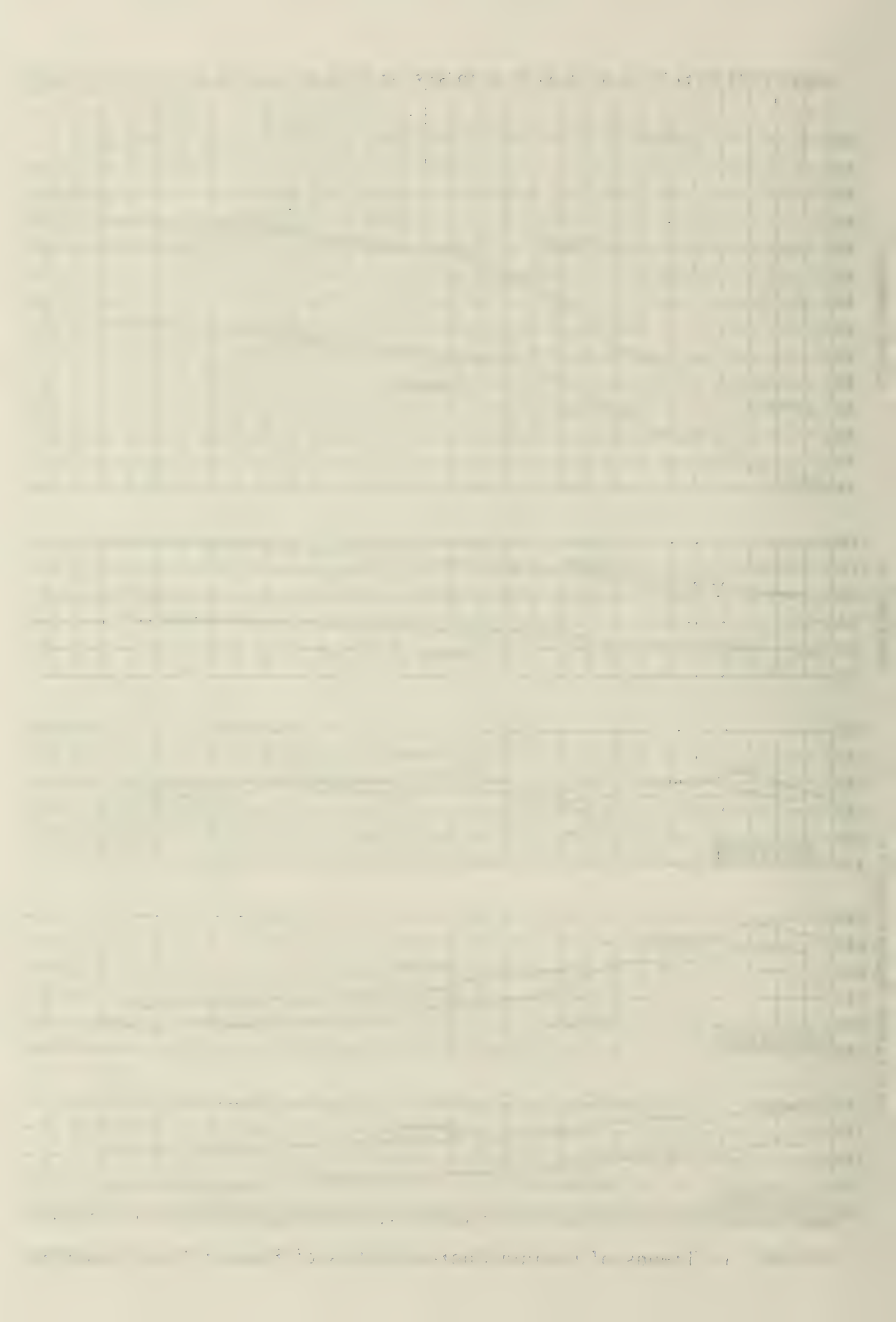
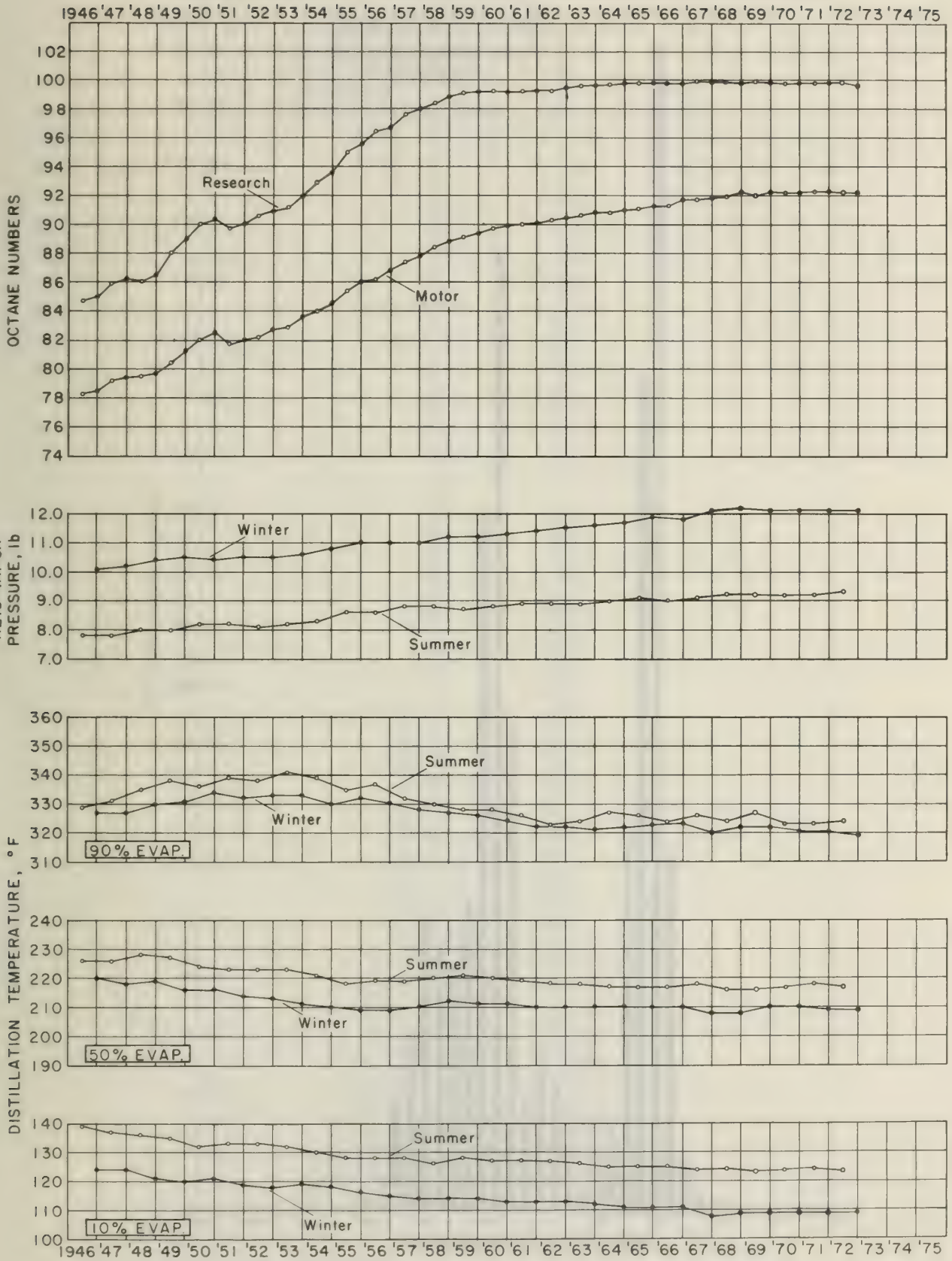
FIGURE 1.–Trends of Certain Characteristics of Regular-Price Gasolines.



FIGURE 2.–Trends of Certain Characteristics of Premium-Price Gasolines.

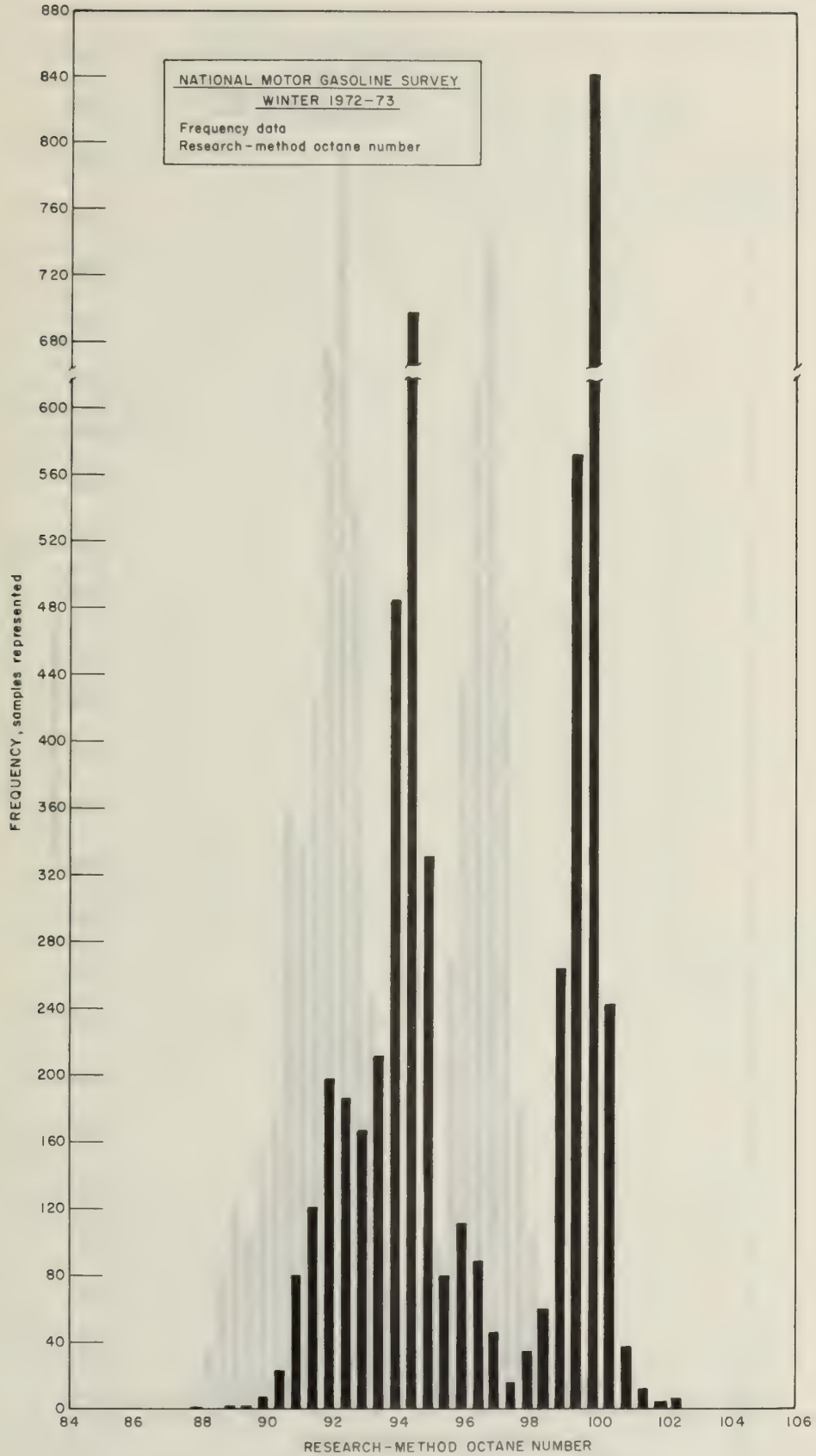


FIGURE 3.– Distribution of Research–Method Octane Numbers.

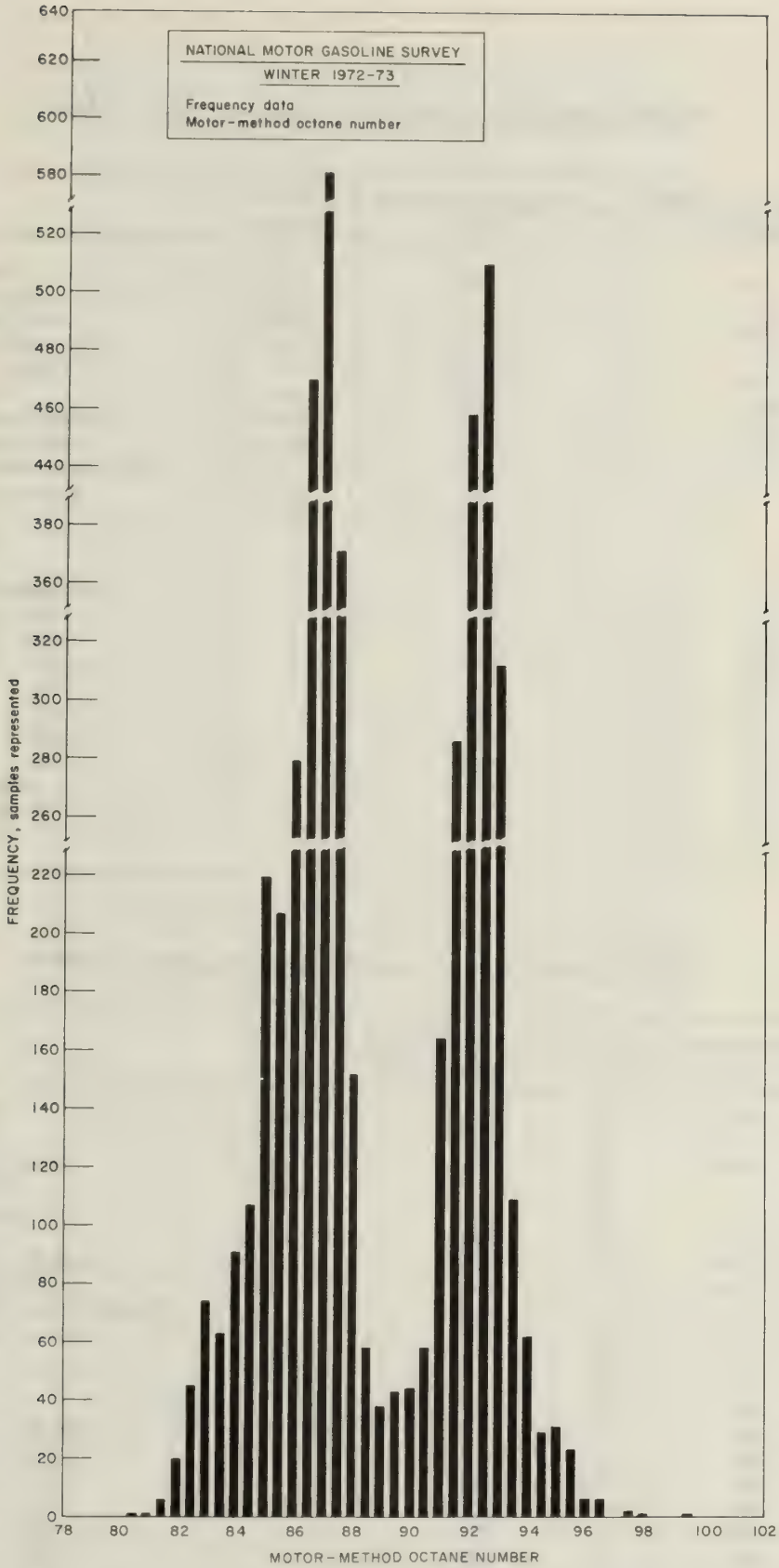


FIGURE 4.–Distribution of Motor–Method Octane Numbers.

TABLE 1. - Summary of values, motor gasoline survey, winter 1972-73

Test	ASTM method	Regular-price gasoline Average	Premium-price gasoline Average
Gravity, °API	D287	62.5	63.0
Corrosion, No.	D130	1	1
Sulfur content, wt %	D1266	0.038	0.023
Gum, mg/100 ml	D381	1	1
Phosphorus, g/gal	-	0.013	0.016
Lead, g/gal	D526	1.80	2.34
Octane number, Research	D2699	93.9	99.6
Octane number, Motor	D2700	86.4	92.2
Research + motor octane Nos./2		90.2	95.9
Reid vapor pressure, lb	D323	12.2	12.1
Distillation	D86		
Temp, °F			
IBP		84	84
5% evaporated		95	95
10% Do.		108	109
20% Do.		128	132
30% Do.		150	158
50% Do.		200	209
70% Do.		257	251
90% Do.		334	319
95% Do.		366	352
End point		405	397
Residue, vol %		1.0	0.9
Loss, vol %		2.1	2.2

TABLE 2. - Summary of values, motor gasoline survey, winter 1971-72

Test	ASTM method	Regular-price gasoline Average	Premium-price gasoline Average
Gravity, °API	D287	62.7	62.9
Corrosion, No.	D130	1	1
Sulfur content, wt %	D1266	0.044	0.026
Gum, mg/100 ml	D381	1	1
Phosphorus, g/gal	-	-	-
Lead, g/gal	D526	1.88	2.43
Octane number, Research	D2699	94.0	99.8
Octane number, Motor	D2700	86.5	92.3
Research + motor octane Nos./2		90.3	96.1
Reid vapor pressure, lb	D323	12.1	12.1
Distillation	D86		
Temp, °F			
IBP		84	83
5% evaporated		96	95
10% Do.		108	109
20% Do.		128	132
30% Do.		150	158
50% Do.		199	209
70% Do.		255	253
90% Do.		336	321
95% Do.		369	353
End point		408	398
Residue, vol %		1.0	0.9
Loss, vol %		2.1	2.4

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1972-73
AVERAGE DATA FOR DIFFERENT BRANDS

DIST. 1 NORTHEAST
MAINE, MASS., N.H., VT., AND NORTHERN N.Y.

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS, G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
1	3	61.6	0.046	-	-	1.85	95.3	87.1	91.2	11.5	83	97	107	127	150	200	261	337	366	410	1.1	1.4
2	1	61.7	.034	1	-	2.35	94.7	87.4	91.1	12.1	72	82	100	122	143	196	266	342	388	408	1.0	3.0
3	7	64.6	.022	1	-	2.67	93.9	87.5	90.7	11.2	85	99	112	135	158	207	254	319	352	393	1.1	1.9
4	4	62.3	.023	1	-	1.26	94.1	87.0	90.6	13.8	74	78	93	115	140	204	276	354	384	420	1.0	4.1
5	3	62.5	.029	-	-	2.01	96.1	86.5	91.3	13.7	78	90	100	120	140	191	244	315	338	374	.7	1.8
6	8	63.6	.042	1	-	1.45	94.6	86.4	90.5	13.0	82	90	102	120	142	183	264	342	372	404	1.0	2.6
7	5	60.8	.027	2	-	1.63	94.5	87.3	90.9	12.9	77	88	98	119	149	214	288	354	383	410	1.0	2.8
8	3	62.4	-	-	-	-	94.9	87.5	91.2	12.0	91	100	111	129	149	199	270	342	366	405	.8	2.9
9	2	61.1	.034	1	-	2.40	94.1	87.0	90.6	11.2	78	85	106	131	157	208	257	336	367	409	1.0	3.5
10	8	61.1	.023	1	-	1.37	94.6	86.5	90.6	12.7	80	88	101	123	148	206	270	347	378	412	1.1	3.3
11	9	65.2	.032	2	-	1.32	94.7	87.2	91.0	14.3	76	81	94	110	131	186	250	324	353	390	1.0	3.3
12	4	61.8	.042	0	-	2.46	94.6	87.4	91.0	13.0	81	101	112	136	161	210	260	341	356	403	.9	2.9
13	4	61.2	.026	1	-	2.18	94.7	87.5	91.1	11.2	83	96	108	127	148	203	267	339	368	419	1.0	1.8
14	4	62.5	.067	1	-	1.78	95.5	85.5	90.5	12.0	84	91	106	126	149	198	263	340	367	405	1.2	2.4
AVERAGE		62.3	.034	1	-	1.90	94.7	87.0	90.9	12.5	80	90	104	124	148	200	264	338	367	404	1.0	2.7
SAMPLES	65																					

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1972-73
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 1 NORTHEAST--CONTINUED
MAINE, MASS., N.H., VT., AND NORTHERN N.Y.
PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS, G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
15	3	61.9	0.004	-	-	2.72	99.9	91.5	95.7	13.0	88	96	104	122	145	195	245	315	336	376	0.9	2.1
16	1	59.3	.010	1	-	3.20	100.2	92.2	96.2	12.1	84	92	110	134	159	212	255	307	333	382	1.0	3.0
17	6	62.2	.018	-	-	2.79	100.2	91.6	95.9	13.1	81	91	104	124	149	205	257	328	354	386	.9	2.5
18	8	61.1	.010	1	-	2.49	100.1	91.9	96.0	11.3	85	96	112	136	162	211	252	311	341	384	1.0	2.2
19	4	53.9	.008	1	-	.07	100.3	89.9	95.1	13.3	82	88	100	122	152	221	258	312	342	376	.9	2.9
20	4	62.2	.036	1	-	2.47	100.0	91.7	95.9	12.1	79	86	101	123	147	198	249	319	353	397	1.1	2.0
21	5	63.1	.034	1	-	2.91	100.4	92.0	96.2	13.0	80	89	103	128	160	217	256	333	354	404	.9	3.3
22	7	66.0	.009	1	-	1.35	100.1	91.9	96.0	13.7	80	86	98	114	135	190	242	303	329	370	1.0	2.8
23	7	62.0	.011	1	-	1.75	100.0	91.5	95.8	12.8	82	90	104	125	151	211	256	315	349	392	1.0	2.6
24	1	60.7	.026	1	-	3.39	101.0	92.4	96.7	12.8	73	82	100	127	159	226	271	326	355	396	1.0	3.0
25	3	61.1	-	-	-	-	100.3	91.6	96.0	12.1	90	100	110	132	155	213	262	330	358	392	.5	2.7
26	4	62.6	.014	1	-	2.73	100.5	92.5	96.5	14.1	79	82	96	116	141	206	260	329	358	413	1.1	3.9
27	3	59.4	.009	-	-	3.00	100.2	91.4	95.8	13.8	84	93	102	122	145	198	239	302	324	378	.8	2.2
28	8	60.4	.014	1	-	2.45	99.9	92.1	96.0	12.7	81	88	102	124	150	211	267	326	351	377	1.0	2.8
29	4	58.4	.010	1	-	2.29	99.9	92.3	96.1	13.0	82	90	101	120	146	222	271	329	352	393	1.0	2.0
AVERAGE		61.0	.015	1	-	2.40	100.2	91.8	96.0	12.9	82	90	103	125	150	209	256	319	346	388	.9	2.7
SAMPLES	68																					

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1972-73
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 2 MID-ATLANTIC COAST
R.I., CONN., N.J., DEL., MD., VA., CENTRAL AND SOUTHERN N.Y., AND EASTERN PA.

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS, G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
30	15	62.0	0.054	2	0.010	2.20	94.7	86.8	90.8	12.4	82	93	105	125	148	196	258	340	378	411	1.0	2.1
31	3	62.7	.038	-	-	2.07	94.3	87.0	90.7	13.0	77	93	102	121	147	198	252	331	360	412	1.0	1.0
32	8	62.6	.030	1	.001	2.16	94.7	88.2	91.5	12.5	84	97	108	125	145	197	267	333	362	396	1.1	1.7
33	2	62.5	.038	2	.000	2.31	94.3	87.0	90.7	13.0	91	104	115	132	152	208	285	351	379	423	1.0	1.5
34	3	62.9	.038	-	-	1.99	94.4	87.0	90.7	13.4	77	89	99	120	144	198	252	331	370	410	.5	1.0
35	24	64.3	.015	1	.001	2.17	94.2	87.4	90.8	12.0	85	96	110	130	151	195	249	319	346	385	1.0	2.5
36	21	61.9	.022	1	.018	1.50	94.8	87.3	91.1	13.7	80	87	99	120	144	204	271	345	373	415	1.1	3.4
37	9	61.3	.053	1	.000	1.36	95.2	86.3	90.8	13.0	82	91	104	124	149	202	259	330	362	399	1.1	2.7
38	25	62.7	.060	1	.002	1.82	94.5	86.8	90.7	12.9	83	91	103	123	145	198	261	336	367	408	1.1	2.6
39	19	61.5	.022	1	.000	1.69	94.6	86.8	90.7	12.7	82	90	103	124	151	216	281	350	377	407	1.0	2.6
40	14	62.4	.059	0	.000	2.02	95.1	85.8	90.5	11.9	83	94	107	127	148	197	257	337	368	401	1.1	2.0
41	16	61.1	.041	1	.009	1.61	94.7	86.6	90.7	13.1	82	90	104	125	149	201	260	337	372	412	1.1	3.3
42	17	62.1	.035	1	.002	2.04	94.7	86.9	90.8	12.8	80	93	105	125	151	204	262	339	371	408	1.1	2.2
43	9	62.8	.036	-	-	2.19	94.5	87.0	90.8	12.6	81	93	103	123	145	197	253	331	367	415	1.1	1.3
44	23	63.5	.026	2	.003	1.41	94.5	87.0	90.8	14.1	79	85	98	120	146	202	261	335	360	394	1.0	3.8
45	26	60.8	.027	1	.053	1.08	94.6	86.6	90.6	12.6	82	91	106	130	159	218	280	354	381	421	1.1	2.6
46	10	63.5	.035	1	.009	2.02	95.0	87.4	91.2	12.7	85	92	103	120	140	191	254	332	366	417	.6	3.3
47	4	62.1	.033	1	.003	2.76	94.3	87.6	91.0	12.8	90	104	114	130	149	205	282	348	374	421	.9	2.0
AVERAGE		62.4	.037	1	.007	1.91	94.6	87.0	90.8	12.8	83	93	105	125	148	202	264	338	369	409	1.0	2.3
SAMPLES	248																					

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1972-73
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 2 MID-ATLANTIC COAST--CONTINUED
R.I., CONN., N.J., DEL., MD., VA., CENTRAL AND SOUTHERN N.Y., AND EASTERN PA.

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF. ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS. G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
48	15	56.2	0.016	0	0.000	0.06	100.4	90.2	95.3	11.9	82	94	106	130	160	220	247	300	335	380	1.0	2.2
49	16	59.8	.014	1	.002	2.21	99.5	92.6	96.1	12.8	81	90	104	124	147	208	274	341	373	421	1.1	3.1
50	16	62.3	.023	1	.002	2.64	99.9	92.2	96.1	12.7	80	95	107	130	157	212	255	332	363	408	1.0	2.4
51	9	63.0	.011	-	-	2.60	99.7	92.3	96.0	13.0	78	91	102	125	153	209	250	328	369	418	.9	2.0
52	23	65.3	.013	1	.003	1.95	99.9	92.3	96.1	14.0	80	86	98	116	136	186	238	309	340	383	1.0	3.3
53	15	62.3	.025	2	.009	2.45	99.5	92.0	95.8	12.8	81	92	104	127	154	208	255	319	348	406	1.0	2.7
54	3	63.2	.033	-	-	2.63	99.8	92.4	96.1	13.7	80	94	100	127	156	211	255	334	384	416	.9	1.1
55	8	59.8	.029	0	.001	2.75	100.2	91.8	96.0	12.7	83	93	105	127	153	208	254	304	330	370	1.1	2.4
56	2	59.8	.026	1	.000	3.02	100.7	91.4	96.1	12.9	88	99	112	136	155	216	261	310	333	392	1.0	2.1
57	3	62.3	.033	-	-	2.41	99.7	92.6	96.2	13.0	84	96	105	124	148	204	256	318	348	384	1.2	.8
58	13	60.5	.031	1	.003	2.63	100.3	91.6	96.0	12.9	79	89	101	123	149	209	267	334	356	390	1.0	3.0
59	24	61.6	.017	2	.001	2.62	100.2	91.9	96.1	12.0	83	94	109	133	158	212	251	306	337	381	1.0	2.4
60	18	61.5	.016	2	.040	2.53	100.1	92.1	96.1	13.4	80	89	101	122	150	211	261	333	368	412	1.0	3.0
61	9	60.9	.023	1	.000	2.73	100.1	92.1	96.1	13.3	81	88	104	126	151	202	253	316	343	396	1.1	3.9
62	25	60.1	.020	0	.003	2.20	99.9	92.3	96.1	12.6	82	92	105	126	152	208	259	318	348	395	1.0	2.5
63	18	60.0	.022	1	.000	2.12	99.7	92.3	96.0	12.9	81	91	102	121	147	222	273	331	358	395	1.1	2.1
64	4	59.6	.030	1	.000	2.92	100.5	91.3	95.9	12.8	87	100	114	137	161	218	261	305	330	383	.9	2.3
65	11	62.0	.031	2	.010	2.74	99.7	91.9	95.8	13.0	86	92	105	125	150	216	265	331	361	408	.6	3.5
66	25	62.8	.014	0	.010	1.81	99.9	91.7	95.8	12.7	82	90	105	127	153	213	257	318	353	400	1.0	2.9
AVERAGE		61.2	.022	1	.005	2.37	100.0	91.9	96.0	12.9	82	92	105	127	152	210	257	320	351	397	1.0	2.5
SAMPLES	257																					

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1972-73
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 3 SOUTHEAST
N.C., S.C., GA., FLA., ALA., AND EASTERN TENN.

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS. G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
67	21	62.7	0.030	-	-	2.25	94.8	86.3	90.6	10.7	88	103	115	132	153	196	258	341	373	407	1.0	1.6
68	3	61.8	-	-	-	2.22	94.7	87.2	91.0	11.8	89	100	108	125	144	189	247	327	364	413	.5	.5
69	3	62.7	-	-	-	1.81	94.4	87.5	91.0	11.9	84	96	106	124	145	191	254	349	385	415	1.0	1.0
70	9	61.3	.045	0	-	2.31	94.4	87.2	90.8	11.4	86	99	111	133	158	208	263	339	370	406	.8	1.8
71	14	62.6	.034	-	-	1.63	94.2	87.0	90.6	11.9	86	96	107	124	145	195	262	340	375	408	1.0	1.9
72	27	61.2	.041	1	-	1.56	94.4	87.1	90.8	11.1	85	98	112	135	160	210	268	340	371	409	1.0	2.0
73	15	64.1	.015	1	-	2.27	94.5	88.3	91.4	10.9	90	103	113	130	148	192	255	333	358	399	1.0	1.5
74	25	61.9	.030	-	-	2.09	94.3	87.0	90.7	11.6	84	96	110	132	157	211	271	350	378	407	1.1	2.1
75	2	61.1	.031	-	-	1.70	94.6	86.4	90.5	10.5	86	102	112	128	146	193	258	331	363	404	1.0	1.0
76	6	62.5	-	-	-	2.16	94.4	87.1	90.8	11.7	84	99	112	133	158	208	268	341	371	415	1.2	1.4
77	22	62.3	.023	1	-	2.28	94.1	87.9	91.0	11.3	87	99	114	134	155	199	253	343	382	422	1.1	1.8
78	7	60.1	.018	2	-	2.16	95.3	88.2	91.8	9.3	88	94	116	136	158	204	260	338	368	413	1.0	1.0
79	27	63.3	.030	2	-	2.66	94.2	87.1	90.7	10.9	86	101	116	138	162	210	259	324	355	394	1.1	1.6
80	10	62.5	.036	1	-	1.78	94.7	87.0	90.9	11.4	84	96	109	128	151	200	257	337	368	414	1.0	1.0
81	1	60.9	.022	1	-	2.43	94.1	87.6	90.9	10.9	90	100	120	140	159	200	252	337	386	420	1.0	2.0
82	6	62.1	.038	-	-	2.13	94.2	86.7	90.5	10.8	84	101	111	133	154	202	258	327	355	396	.8	1.2
83	6	62.8	.026	-	-	1.90	94.5	87.2	90.9	12.2	85	96	106	124	145	195	256	330	357	396	.8	1.0
84	6	61.5	.049	-	-	2.24	94.6	86.9	90.8	10.9	85	101	112	132	153	199	255	336	366	414	1.0	1.0
AVERAGE		62.1	.031	1	-	2.09	94.5	87.2	90.9	11.2	86	99	112	131	153	200	259	337	369	408	1.0	1.4
SAMPLES	210																					

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1972-73
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 3 SOUTHEAST--CONTINUED
N.C., S.C., GA., FLA., ALA., AND EASTERN TENN.

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS, G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
85	6	62.9	0.036	-	-	2.54	99.9	92.5	96.2	11.5	83	98	109	130	152	209	260	321	357	403	0.9	1.1
86	6	61.5	.018	-	-	2.56	99.9	92.4	96.2	11.7	86	100	111	132	158	214	256	318	349	394	.9	1.1
87	6	63.4	.010	-	-	2.94	100.1	92.5	96.3	10.9	86	104	116	143	171	217	252	319	357	399	.8	1.2
88	1	60.7	.012	1	-	2.43	100.1	92.0	96.1	10.4	87	101	118	137	157	204	259	339	371	408	1.0	2.0
89	10	62.3	.016	1	-	2.52	99.8	92.3	96.1	11.6	83	97	110	131	155	211	262	323	352	405	1.0	1.5
90	28	60.9	.016	1	-	2.58	100.0	92.1	96.1	11.0	86	101	117	143	171	219	255	309	336	377	1.0	1.9
91	6	59.4	.014	1	-	2.67	100.0	92.6	96.3	9.3	91	105	121	143	165	211	250	324	359	407	1.0	1.8
92	21	61.4	.013	1	-	2.47	100.1	92.2	96.2	11.8	84	97	110	130	154	203	263	339	368	409	1.1	1.9
93	5	62.0	-	-	-	2.81	99.9	92.4	96.2	11.5	81	97	109	133	159	210	253	322	363	412	.8	1.2
94	2	58.0	.065	-	-	2.34	100.2	93.0	96.6	11.3	82	98	113	138	167	227	268	311	341	388	.7	1.3
95	25	61.0	.014	-	-	2.33	100.1	92.7	96.4	11.6	85	96	109	132	158	221	266	330	360	399	1.0	1.9
96	15	60.9	.009	1	-	2.95	99.9	92.9	96.4	11.1	88	99	109	127	147	207	280	325	343	379	.8	2.0
97	26	64.0	.028	1	-	2.32	100.1	92.4	96.3	11.4	85	97	111	133	157	208	248	314	346	391	1.1	1.9
98	14	64.3	.022	-	-	1.91	99.9	92.4	96.2	11.8	83	94	105	123	144	194	240	301	330	370	.9	1.7
99	10	61.9	.036	0	-	2.83	100.0	92.4	96.2	11.7	82	97	112	138	167	216	256	336	362	410	.9	1.9
100	3	62.3	-	-	-	2.69	99.9	92.1	96.0	12.5	84	99	110	131	157	211	256	323	364	414	.7	1.3
101	3	61.0	-	-	-	2.72	99.4	92.0	95.7	10.9	86	99	114	133	155	213	268	355	375	410	1.2	1.8
102	23	54.3	.005	-	-	.00	101.0	90.7	95.9	11.4	86	99	115	144	180	231	256	316	342	374	1.0	2.0
AVERAGE		61.2	.021	1	-	2.42	100.0	92.3	96.2	11.3	85	99	112	135	160	213	258	324	354	397	.9	1.6
SAMPLES	210																					

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1972-73
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 4 APPALACHIAN
OHIO, W. VA., WESTERN N.Y., WESTERN PA., EASTERN KY., AND PART OF MD.

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS. G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	5	10	20	30	50	70	90	95	EP	RES %	LOSS %
103	6	61.7	0.085	-	-	2.13	94.6	86.6	90.6	12.5	84	96	107	126	148	199	263	354	395	440	1.1	1.5
104	21	63.8	.027	1	0.005	2.53	94.2	87.4	90.8	12.3	84	96	109	128	148	193	246	323	358	409	1.1	1.9
105	13	62.6	.020	2	.033	1.86	94.5	87.1	90.8	13.8	81	91	102	123	144	197	259	342	378	415	1.1	1.9
106	13	62.9	.017	1	.014	1.14	94.5	86.7	90.6	13.7	80	90	103	125	150	198	247	318	347	385	.9	2.3
107	1	63.0	.078	3	.011	2.62	94.4	87.7	91.1	12.2	87	100	110	128	148	195	260	361	397	438	1.1	1.9
108	17	63.1	.022	0	.008	1.76	94.3	86.7	90.5	13.1	81	92	104	122	144	195	254	327	361	400	1.0	2.0
109	14	62.6	.032	3	.014	2.05	94.9	87.3	91.1	13.0	82	92	102	121	143	193	252	336	373	414	1.0	1.9
110	10	63.2	.076	1	.001	2.52	94.8	87.3	91.1	12.9	88	96	107	125	147	199	260	337	369	413	.7	3.2
111	8	62.2	.024	2	.000	1.64	94.5	86.9	90.7	13.6	82	92	103	122	145	200	262	341	379	419	1.0	2.2
112	7	63.3	.038	2	.007	2.87	94.8	86.6	90.7	12.3	81	94	107	127	148	195	252	337	375	439	1.3	1.4
113	7	63.4	.029	2	.006	2.75	94.5	87.1	90.8	12.2	83	93	104	123	145	191	251	345	382	435	1.1	1.5
114	15	61.6	.032	0	.009	1.74	94.6	86.5	90.6	12.7	83	95	107	128	151	201	256	336	371	419	.9	1.6
115	3	63.2	.007	-	-	1.26	94.9	87.0	91.0	13.2	84	97	109	131	155	203	253	322	362	386	.8	2.2
116	1	62.4	.029	0	.006	1.40	94.8	87.1	91.0	13.7	79	90	101	121	145	198	255	329	362	394	1.0	1.5
117	14	63.0	.036	2	.002	1.95	94.4	87.1	90.8	13.0	81	92	104	123	146	198	259	338	371	411	1.1	2.2
118	18	62.8	.025	2	.012	1.79	94.5	87.0	90.8	13.1	81	92	104	123	144	193	251	332	371	413	1.0	1.7
119	1	62.2	.010	5	.039	3.12	94.6	-	47.3	12.7	76	81	105	135	162	212	262	325	362	386	1.0	4.0
AVERAGE		62.8	.035	2	.011	2.07	94.6	87.0	90.8	12.9	82	93	105	125	148	198	255	335	371	413	1.0	2.1
SAMPLES	169																					

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1972-73
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 4 APPALACHIAN--CONTINUED
OHIO, W. VA., WESTERN N.Y., WESTERN PA., EASTERN KY., AND PART OF MD.

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS. G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
120	7	55.4	0.004	0	0.001	0.04	100.6	92.0	96.3	11.9	86	99	109	130	163	225	258	320	342	374	0.7	1.9
121	7	63.5	.012	0	.000	2.74	99.9	92.7	96.3	12.3	83	95	107	135	164	214	255	329	362	424	1.1	2.2
122	15	60.4	.009	1	.000	2.12	99.6	92.6	96.1	12.8	83	92	104	124	150	212	274	337	363	412	1.0	2.5
123	3	63.2	.004	-	-	2.11	99.2	93.5	96.4	14.1	79	89	99	118	141	198	272	327	353	383	1.0	1.0
124	1	62.5	.004	0	.000	2.18	99.6	92.3	96.0	13.1	80	-	102	126	157	212	256	329	-	411	1.0	6.0
125	14	64.9	.014	0	.000	2.36	100.4	92.6	96.5	13.3	82	91	103	125	150	205	248	319	360	398	.9	3.2
126	6	63.3	.027	-	.000	2.38	99.6	92.8	96.2	13.1	83	92	104	127	159	213	261	333	373	413	.8	2.2
127	21	59.9	.013	3	.000	2.51	100.3	92.0	96.2	12.6	83	92	106	130	157	209	251	320	355	401	1.0	2.9
128	12	61.5	.010	1	.039	2.22	100.1	92.1	96.1	13.8	81	92	102	123	149	207	252	313	345	392	1.0	2.6
129	13	62.3	.007	5	.005	1.94	99.5	92.5	96.0	14.6	80	86	98	118	141	199	265	320	340	373	.9	3.5
130	1	60.0	.010	9	.001	3.01	100.4	92.5	96.5	11.0	90	105	116	140	168	219	270	339	362	425	1.0	2.5
131	18	61.8	.015	0	.001	2.47	99.7	92.8	96.3	12.9	83	93	106	128	153	204	248	313	348	395	1.0	2.5
132	14	61.3	.009	2	.000	1.96	100.1	92.7	96.4	12.8	83	92	105	128	157	213	255	324	360	405	1.1	3.0
133	10	64.0	.011	0	.004	2.46	99.6	91.8	95.7	12.6	88	95	106	124	147	203	250	323	358	405	.5	3.5
134	8	64.8	.010	1	.003	1.99	99.9	92.7	96.3	14.2	82	90	101	121	150	204	241	313	348	395	.9	3.2
135	1	59.6	.010	9	.080	4.11	99.5	-	49.8	12.0	78	82	101	129	157	212	266	332	352	392	1.0	4.0
136	16	64.7	.009	0	.002	2.39	100.1	92.7	96.4	13.2	82	94	104	126	153	206	244	315	354	396	1.0	3.0
AVERAGE		61.9	.010	2	.009	2.29	99.9	92.5	96.2	13.0	83	92	104	127	154	209	257	324	355	400	.9	2.9
SAMPLES	167																					

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1972-73
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 5 MICHIGAN

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS. G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
137	10	62.3	0.028	1	0.001	1.30	95.0	87.2	91.1	12.6	84	92	104	124	148	204	266	334	365	404	0.9	2.4
138	6	62.6	.019	1	.004	1.28	94.8	86.7	90.8	14.3	79	86	96	114	138	196	257	331	363	413	.9	2.7
139	5	64.0	.025	1	.005	1.25	94.7	86.7	90.7	13.4	82	93	103	124	150	191	247	322	352	386	.8	1.3
140	9	63.0	.018	2	.004	1.27	94.3	86.4	90.4	13.5	80	88	100	121	145	197	251	329	364	409	.8	2.7
141	4	61.5	.040	1	.002	2.13	94.7	86.6	90.7	13.4	82	92	101	121	144	199	257	331	364	415	.6	1.4
142	5	63.0	.040	1	.000	1.88	94.6	86.3	90.5	13.7	81	88	101	121	142	195	249	332	364	415	1.0	2.7
143	12	63.2	.046	2	.006	2.64	94.8	85.9	90.4	11.9	83	92	105	126	148	198	247	316	341	386	.9	2.2
144	1	62.3	.010	0	.004	.92	94.2	86.5	90.4	13.5	82	90	102	119	140	190	242	311	342	399	.7	2.3
145	11	64.6	.028	0	.005	1.50	93.9	87.2	90.6	12.7	83	92	102	120	139	185	237	314	350	400	.8	2.0
146	5	63.2	.016	1	.013	1.16	94.7	86.6	90.7	13.9	81	90	104	123	146	195	249	326	353	393	1.0	2.4
147	8	63.3	.020	1	.014	1.64	94.0	86.7	90.4	14.6	76	82	94	115	138	196	263	350	381	424	1.1	3.2
148	15	63.0	.020	1	.000	2.06	94.7	86.6	90.7	12.6	83	91	105	125	148	200	257	325	352	391	.8	2.6
149	6	62.9	.033	1	.012	1.75	94.9	86.5	90.7	13.7	80	90	104	128	157	209	258	339	374	418	1.0	2.6
150	1	62.4	.018	1	-	1.06	95.0	87.0	91.0	13.1	78	88	103	124	149	201	252	322	353	402	1.0	2.0
151	1	62.8	.014	1	-	1.47	95.0	87.7	91.4	15.0	72	78	91	110	133	189	250	325	354	400	1.0	3.0
AVERAGE		62.9	.025	1	.005	1.55	94.6	86.7	90.7	13.5	80	89	101	121	144	196	252	327	358	404	.9	2.4
SAMPLES	99																					

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1972-73
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 5 MICHIGAN--CONTINUED

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS. G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
152	10	65.7	0.013	1	0.000	2.89	100.1	92.1	96.1	12.5	83	93	106	125	146	192	230	292	326	372	0.8	2.4
153	5	63.7	.010	1	.000	2.36	99.8	92.4	96.1	13.1	80	90	103	125	153	207	252	317	348	397	.7	1.9
154	4	64.0	.020	0	.000	2.40	99.7	92.6	96.2	13.5	80	92	105	129	159	210	253	332	375	428	1.1	1.7
155	9	66.5	.010	0	.008	2.55	99.9	94.0	97.0	13.2	82	88	103	127	155	205	239	310	345	391	.9	3.5
156	5	63.3	.010	0	.007	2.08	99.9	92.6	96.3	13.5	82	91	105	127	156	210	257	325	355	387	.9	2.1
157	6	67.9	.017	1	.002	2.31	100.1	92.5	96.3	15.0	79	83	98	119	145	203	241	325	363	410	1.0	3.7
158	10	60.9	.008	1	.000	1.42	100.1	92.7	96.4	12.7	83	91	106	129	157	212	245	306	335	384	.9	3.0
159	1	62.8	.010	2	.001	2.21	98.9	91.0	95.0	13.2	82	89	103	125	151	203	253	333	373	416	.7	2.8
160	12	62.4	.013	1	.000	1.71	99.5	93.5	96.5	12.7	83	90	104	127	155	204	243	307	336	388	.8	3.2
161	5	62.2	.001	2	.004	1.91	100.0	92.2	96.1	14.3	82	89	102	126	156	214	259	317	341	382	.9	3.1
162	8	62.2	.010	1	.034	1.93	99.8	92.1	96.0	14.7	78	83	97	117	143	203	250	314	349	396	.9	3.5
163	13	61.5	.011	2	.000	2.48	99.4	92.8	96.1	12.4	84	90	108	139	170	212	242	296	333	372	.9	4.2
164	5	64.1	.024	1	.005	2.27	100.0	93.5	96.8	13.5	81	89	101	122	148	203	252	337	378	414	1.0	3.2
165	1	63.3	.016	1	-	1.10	94.8	86.6	90.7	13.8	74	78	96	116	138	189	252	333	364	400	1.0	4.0
166	1	67.7	.018	1	-	2.25	100.4	92.4	96.4	13.9	72	76	95	118	146	204	241	323	354	408	1.0	4.0
AVERAGE		63.9	.013	1	.005	2.12	99.5	92.2	95.9	13.5	80	87	102	125	152	205	247	318	352	396	.9	3.1
SAMPLES	95																					

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1972-73
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 6 NORTH ILLINOIS
NORTHERN IND., NORTHERN ILL., EASTERN IOWA, AND WIS.

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS. G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	MOT, ASTM D2700	R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
167	3	62.1	0.068	-	-	2.08	95.1	86.5	90.8	13.8	81	91	101	119	144	201	272	361	389	418	1.4	1.6
168	7	63.6	.022	-	-	2.33	94.8	86.8	90.8	12.6	84	91	103	121	143	194	251	317	341	382	.8	2.5
169	1	-	-	-	-	-	94.2	86.8	90.5	13.1	84	89	101	121	144	198	266	346	376	405	.8	3.2
170	10	63.1	.023	0	0.003	1.39	93.9	87.0	90.5	12.9	86	95	103	122	143	193	245	309	334	371	1.0	2.6
171	8	61.7	.034	1	.003	1.29	95.1	87.1	91.1	12.3	86	95	106	125	147	203	267	330	360	402	1.0	2.2
172	7	64.5	.013	-	-	1.72	94.6	86.9	90.8	12.9	85	93	103	119	137	185	243	317	351	391	.9	2.3
173	5	63.1	.041	2	.017	1.58	94.5	86.5	90.5	13.8	83	89	100	117	140	193	252	333	373	413	1.1	3.3
174	3	62.4	-	-	-	1.80	94.4	86.7	90.6	13.4	84	91	101	122	145	197	251	333	366	407	1.2	2.4
175	3	62.3	.048	-	-	2.30	95.0	86.8	90.9	13.7	85	95	105	121	142	198	264	349	380	416	1.4	1.6
176	4	61.9	.058	1	.003	2.18	94.8	87.6	91.2	12.8	85	96	105	125	150	203	263	328	355	413	1.2	2.1
177	3	61.8	.048	-	-	2.11	94.5	86.9	90.7	11.4	86	103	114	134	155	203	261	339	372	424	1.0	1.0
178	7	63.5	.057	0	.005	2.22	94.6	86.2	90.4	13.8	82	86	98	116	138	193	252	338	369	416	.9	3.5
179	8	62.9	.081	1	.003	2.98	95.2	86.1	90.7	12.4	85	93	106	125	148	197	248	316	340	379	.9	2.7
AVERAGE		62.7	.045	1	.006	2.00	94.7	86.8	90.8	13.0	84	93	104	122	144	197	257	332	362	403	1.0	2.4
SAMPLES	69																					

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1972-73
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 6 NORTH ILLINOIS--CONTINUED
NORTHERN IND., NORTHERN ILL., EASTERN IOWA, AND WIS.

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS. G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
180	3	65.7	0.038	-	-	2.02	99.8	92.5	96.2	12.0	84	96	108	131	164	212	246	327	358	402	1.0	1.0
181	3	64.1	.056	-	-	2.40	99.4	92.6	96.0	12.7	84	96	107	132	164	212	246	332	363	410	1.0	1.0
182	4	62.7	.031	1	0.003	2.56	99.6	92.5	96.1	12.9	85	94	105	127	153	205	250	335	381	418	1.0	2.0
183	3	63.4	.037	-	-	2.39	99.6	91.9	95.8	12.2	87	98	110	130	157	207	245	320	363	411	1.0	1.0
184	6	66.0	.028	1	.153	2.44	99.6	92.6	96.1	13.3	82	88	101	122	148	203	241	308	344	392	.9	3.3
185	8	65.7	.026	1	.003	2.92	100.4	92.3	96.4	12.5	86	94	107	126	147	194	232	290	323	373	.8	2.7
186	3	65.6	.038	-	-	2.41	100.0	94.4	97.2	12.9	80	92	106	134	168	211	241	315	368	406	.9	2.1
187	7	60.9	.008	-	-	2.67	99.5	92.7	96.1	12.7	84	90	110	143	174	214	243	297	324	369	.9	4.6
188	1	-	-	-	-	-	100.4	93.0	96.7	12.5	84	87	101	123	147	203	248	308	-	390	.7	3.8
189	10	68.9	.014	1	.003	1.86	99.1	93.8	96.5	12.8	84	92	106	132	160	207	245	313	337	384	2.0	3.4
190	8	59.2	.019	0	.003	1.56	100.4	92.5	96.5	12.3	87	94	109	132	157	214	249	310	342	394	1.0	2.8
191	7	69.0	.023	-	-	1.93	99.6	92.3	96.0	12.5	86	93	103	120	138	188	232	310	350	403	.8	2.4
192	5	66.1	.019	1	.005	1.69	99.4	92.9	96.2	13.7	83	91	101	123	150	201	235	307	345	386	1.0	3.0
AVERAGE		64.8	.028	1	.028	2.24	99.8	92.8	96.3	12.7	84	93	106	129	156	205	243	313	350	395	1.0	2.5
SAMPLES	68																					

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1972-73
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 7 CENTRAL MISSISSIPPI
WESTERN KY., SOUTHERN IND., SOUTHERN ILL., AND EASTERN MO.

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS. G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	5	10	20	30	50	70	90	95	EP	RES %	LOSS %
193	2	62.5	0.018	-	-	1.93	94.3	86.8	90.6	-	-	-	-	-	-	-	-	-	-	-	-	-
194	6	60.0	.016	-	-	1.62	94.8	86.1	90.5	12.9	84	97	111	132	159	211	273	354	379	409	1.1	1.7
195	3	61.5	.014	-	-	.96	94.2	86.0	90.1	13.1	86	97	107	131	153	208	275	359	381	420	1.2	1.3
196	3	59.9	.019	-	-	1.72	95.1	86.4	90.8	12.7	84	96	109	132	158	210	273	357	391	414	1.0	1.5
197	11	63.0	.041	-	-	2.15	94.3	87.0	90.7	12.0	77	88	100	120	142	194	254	340	376	420	1.0	1.9
198	3	62.8	.025	-	-	2.69	94.1	87.3	90.7	13.2	84	97	113	138	164	213	264	342	382	426	1.4	1.6
199	9	63.3	.046	2	0.006	2.41	94.9	86.6	90.8	11.7	82	92	104	124	146	194	244	316	346	385	.9	1.9
200	6	64.5	.044	-	-	1.56	94.5	86.8	90.7	13.5	83	95	105	121	140	194	259	340	367	408	1.2	1.1
201	9	62.1	.045	-	-	2.01	94.6	86.8	90.7	13.1	83	95	105	122	144	196	257	335	369	410	1.1	1.2
202	3	62.2	.007	-	-	1.29	94.3	87.2	90.8	12.3	86	97	107	125	150	202	252	330	356	398	1.4	1.6
203	12	62.8	.023	3	.004	1.61	94.2	87.3	90.8	13.2	80	90	101	118	140	192	250	327	364	406	1.0	2.4
204	6	64.6	.041	-	-	1.51	94.9	86.4	90.7	13.0	89	96	105	122	143	201	257	329	365	412	.5	2.6
205	3	60.7	.075	-	-	.83	94.0	85.4	89.7	13.1	83	96	107	126	150	202	267	348	382	414	1.0	1.0
206	13	62.6	.023	5	.005	1.58	94.7	87.1	90.9	13.0	80	90	102	121	145	198	255	336	367	402	.9	1.6
207	3	62.1	.018	-	-	1.18	94.1	87.2	90.7	13.1	80	92	103	121	142	193	243	318	344	395	.5	1.0
208	3	62.3	.028	-	-	2.77	94.6	87.4	91.0	11.7	86	102	113	131	151	191	259	362	400	440	1.0	1.5
209	3	63.4	.017	-	-	2.84	94.3	88.6	91.5	11.9	86	96	106	124	146	195	254	334	368	410	1.1	1.9
210	8	62.6	.024	-	-	1.82	94.3	86.8	90.6	13.1	82	93	104	125	149	203	261	340	379	422	.9	1.6
211	16	64.1	.022	4	.002	2.53	93.9	87.3	90.6	11.6	82	94	109	129	151	195	243	305	331	372	.9	2.0
212	3	61.1	.031	-	-	1.10	93.8	87.1	90.5	14.3	82	89	99	115	137	197	264	336	363	416	1.2	1.8
AVERAGE		62.4	.029	4	.004	1.81	94.4	86.9	90.7	12.8	83	94	106	125	148	199	258	337	369	409	1.0	1.6
SAMPLES	125																					

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1972-73
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 7 CENTRAL MISSISSIPPI--CONTINUED
WESTERN KY., SOUTHERN IND., SOUTHERN ILL., AND EASTERN MO.

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF., ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS. G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
213	9	64.5	0.019	-	-	2.43	100.0	92.6	96.3	12.2	84	96	107	128	153	201	238	296	328	385	0.7	1.6
214	3	64.9	.017	-	-	2.77	100.2	93.2	96.7	9.8	87	98	117	144	169	209	244	310	341	402	.5	1.0
215	12	64.4	.006	3	0.007	1.53	99.2	92.5	95.9	13.8	78	88	99	119	146	198	235	302	340	387	.9	2.4
216	6	70.0	.023	-	-	2.57	99.7	92.4	96.1	11.9	88	97	106	120	137	190	231	303	353	411	.3	2.5
217	3	63.1	.014	-	-	2.46	99.8	93.3	96.6	11.7	86	100	114	141	172	217	254	305	346	404	1.3	1.7
218	13	61.8	.006	4	.002	1.57	100.1	92.8	96.5	12.6	82	91	105	127	155	209	251	314	344	391	.9	2.5
219	3	64.7	.015	-	-	2.64	99.5	92.2	95.9	12.8	80	96	110	138	168	213	251	331	367	406	1.0	1.5
220	3	59.2	.015	-	-	2.92	100.1	92.1	96.1	12.7	82	93	105	131	163	220	272	346	368	412	.8	2.2
221	3	63.7	.015	-	-	2.56	100.3	92.4	96.4	13.2	84	96	106	126	151	202	250	323	350	390	.9	2.1
222	9	62.6	.021	-	-	2.39	99.9	92.7	96.3	12.8	84	97	109	133	163	212	249	321	353	408	1.0	1.3
223	16	59.4	.008	3	.002	2.71	99.9	91.9	95.9	11.4	80	91	110	140	174	226	263	315	341	386	1.0	2.6
224	3	64.5	.054	-	-	1.39	99.4	92.5	96.0	14.0	82	90	97	118	143	191	229	299	334	370	1.2	1.8
225	10	63.5	.006	3	.005	2.53	99.9	91.8	95.9	11.9	81	92	105	129	156	208	249	310	341	388	.9	2.3
226	3	58.9	.007	-	-	3.09	99.7	91.3	95.5	12.7	86	103	119	152	184	237	286	355	393	440	1.0	2.0
227	12	62.9	.013	-	-	2.35	99.2	92.2	95.7	12.9	79	90	103	127	156	207	246	316	355	397	1.1	2.0
228	3	64.9	.022	-	-	2.55	99.8	92.3	96.1	13.3	78	93	108	135	168	211	252	329	388	404	.9	1.6
229	2	62.9	-	-	-	2.32	99.7	92.8	96.3	-	-	-	-	-	-	-	-	-	-	-	-	-
230	6	64.9	.013	-	-	2.54	99.7	92.4	96.1	12.5	81	98	115	144	174	212	249	336	377	402	1.2	1.6
231	3	64.7	.001	-	-	2.56	99.4	93.1	96.3	12.5	81	95	109	132	162	209	239	298	324	381	.5	1.0
232	2	64.9	.004	-	-	2.58	99.9	92.4	96.2	-	-	-	-	-	-	-	-	-	-	-	-	-
233	6	66.6	.015	-	-	1.95	99.9	92.5	96.2	13.6	83	92	103	123	147	199	241	309	355	402	1.0	1.3
AVERAGE		63.7	.015	3	.004	2.40	99.8	92.4	96.1	12.5	82	95	108	132	160	209	249	317	353	398	.9	1.8
SAMPLES	130																					

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1972-73
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 8 LOWER MISSISSIPPI
MISS., LA., EASTERN AND SOUTHERN ARK., AND WESTERN TENN.

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS, G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	5	10	20	30	50	70	90	95	EP	RES %	LOSS %
											PERCENT EVAPORATED											
234	9	64.2	0.027	-	-	2.40	94.0	87.2	90.6	11.8	81	98	107	126	147	189	246	329	357	401	1.1	1.6
235	6	61.8	.041	-	-	2.42	94.4	87.2	90.8	12.0	86	101	110	127	145	190	250	340	372	418	1.2	1.1
236	3	65.4	.022	-	-	2.68	93.1	87.8	90.5	12.3	80	94	106	124	144	188	239	330	386	422	1.0	1.0
237	17	64.3	.035	0	0.000	2.35	93.4	87.4	90.4	13.2	82	95	105	126	148	195	250	330	377	409	1.0	1.1
238	3	61.6	-	-	-	2.43	94.3	86.4	90.4	11.1	87	102	112	137	158	209	265	330	369	414	1.2	.8
239	8	63.3	.028	0	-	2.43	94.0	87.6	90.8	12.4	81	101	107	127	151	198	253	330	362	406	1.0	2.5
240	2	-	-	-	-	-	94.2	87.7	91.0	12.1	85	99	113	135	160	211	274	351	375	397	1.0	1.5
241	11	62.2	.026	-	-	1.89	94.2	87.0	90.6	12.2	85	95	107	127	151	206	273	343	367	395	.9	1.7
242	12	61.1	.026	-	-	1.67	94.3	87.3	90.8	11.7	84	99	108	130	154	208	261	335	360	407	.9	2.0
243	10	64.4	.050	0	-	2.42	94.1	87.3	90.7	12.1	84	96	108	129	149	193	243	321	357	408	1.0	1.7
244	3	62.2	-	-	-	-	94.2	85.3	89.8	12.9	89	99	110	131	155	210	270	349	380	420	.4	2.9
245	14	62.4	.027	-	-	2.20	94.2	87.0	90.6	12.4	81	95	105	128	154	205	260	346	378	405	1.0	1.9
246	12	62.8	.038	-	-	2.42	94.3	87.0	90.7	11.9	85	97	108	127	148	196	258	336	369	405	1.0	1.5
247	9	61.6	.012	-	-	2.34	94.2	87.7	91.0	11.3	85	100	112	134	156	206	259	329	355	405	1.0	1.0
248	2	61.7	-	-	-	2.05	94.4	87.4	90.9	11.6	82	-	109	129	-	200	-	340	-	404	1.0	2.8
249	6	61.7	.051	-	-	2.47	94.1	86.0	90.1	11.2	82	100	113	136	161	214	267	349	380	426	1.2	1.1
250	16	62.4	.018	-	-	2.40	94.2	86.9	90.6	10.6	88	103	116	138	159	209	253	324	350	395	1.0	1.7
251	3	61.5	.022	-	-	1.68	94.1	86.5	90.3	12.8	78	93	104	125	149	203	268	342	369	394	.8	1.2
252	2	64.3	.014	-	-	2.01	93.4	87.8	90.6	11.8	84	96	106	125	146	194	247	328	359	414	1.0	1.0
AVERAGE		62.7	.029	0	.000	2.25	94.1	87.1	90.6	12.0	84	98	109	130	152	201	258	336	368	408	1.0	1.6
SAMPLES	148																					

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1972-73
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 8 LOWER MISSISSIPPI--CONTINUED
MISS., LA., EASTERN AND SOUTHERN ARK., AND WESTERN TENN.

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF., ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS. G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
253	10	54.5	0.005	-	-	0.03	100.8	90.7	95.8	12.2	81	95	106	130	155	221	247	311	334	376	1.1	1.7
254	6	61.1	.023	-	-	2.82	99.8	91.9	95.9	12.3	84	97	107	126	148	202	254	325	349	400	1.2	1.9
255	3	66.6	.062	-	-	3.11	99.9	93.9	96.9	12.6	80	97	110	135	166	216	258	329	361	410	1.0	1.0
256	12	63.3	.028	0	0.000	3.25	100.0	92.6	96.3	12.8	84	98	107	128	151	200	259	331	360	391	1.0	1.2
257	3	63.4	-	-	-	2.57	100.0	93.1	96.6	11.7	86	100	114	151	180	223	259	328	358	405	1.2	1.8
258	8	64.9	.024	0	-	2.82	99.9	92.5	96.2	12.3	80	97	110	135	160	207	245	332	372	418	1.1	2.3
259	9	61.7	.003	-	-	2.28	99.8	92.3	96.1	11.9	84	95	107	129	155	212	258	321	355	406	1.0	1.8
260	12	64.2	.016	-	-	1.98	99.8	92.4	96.1	12.3	87	96	107	128	154	206	242	302	334	374	1.0	2.0
261	12	61.6	.002	-	-	2.32	100.0	92.2	96.1	11.4	83	97	108	128	151	204	249	308	338	395	1.0	1.6
262	10	64.2	.064	0	-	2.74	99.9	93.0	96.5	12.4	85	95	108	129	152	199	241	313	350	406	1.1	1.8
263	3	64.5	-	-	-	-	100.1	91.9	96.0	12.8	88	92	109	134	164	220	256	342	376	417	.7	4.5
264	14	61.5	.015	-	-	2.28	100.1	92.5	96.3	12.4	83	93	105	126	152	209	256	320	355	401	1.0	1.9
265	12	62.9	.020	-	-	2.77	99.9	92.8	96.4	11.7	87	99	111	133	160	211	252	316	347	388	1.0	1.6
266	9	61.9	.013	-	-	2.50	100.1	92.5	96.3	11.2	84	100	112	136	162	209	251	317	348	394	.9	1.3
267	2	62.7	-	-	-	2.28	100.2	92.6	96.4	11.6	85	-	108	128	-	198	-	326	-	388	1.0	3.0
268	6	64.0	.041	-	-	2.83	100.1	92.6	96.4	11.1	84	100	115	144	176	221	257	332	366	416	1.0	1.5
269	16	60.5	.010	-	-	2.69	100.0	92.0	96.0	10.9	85	102	116	140	170	215	252	307	328	376	1.0	1.7
270	3	62.9	.015	-	-	2.17	100.1	92.2	96.2	12.7	78	91	102	121	147	205	242	300	326	362	.8	1.2
271	3	63.3	.017	-	-	2.77	98.3	91.6	95.0	11.2	86	95	106	130	154	205	257	335	362	412	1.0	1.0
AVERAGE		62.6	.022	0	.000	2.46	99.9	92.4	96.2	12.0	84	97	109	132	159	210	252	321	351	397	1.0	1.8
SAMPLES	153																					

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1972-73
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 9 NORTH PLAINS
MINN., N. DAK., AND S. DAK.

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF., ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS., G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES LOSS %	%
272	3	60.7	0.085	-	-	1.56	92.8	85.1	89.0	12.8	82	92	102	124	149	207	267	342	382	424	1.0	1.0
273	6	62.1	.076	-	-	1.51	92.8	85.3	89.1	12.7	79	86	98	116	139	195	255	344	378	419	1.0	2.8
274	3	64.3	.038	-	-	1.51	92.4	85.0	88.7	11.8	85	98	110	131	152	200	257	332	373	408	1.1	1.9
275	4	60.7	.081	-	-	1.78	92.4	85.1	88.8	13.9	85	88	104	123	147	203	264	349	370	420	1.1	2.4
276	3	63.9	.044	-	-	1.78	92.8	85.6	89.2	11.5	84	100	111	131	150	196	246	315	351	418	.7	.8
277	3	60.6	.069	-	-	1.59	92.6	84.9	88.8	12.7	86	94	103	123	147	202	264	362	391	419	.4	2.1
278	5	64.6	.030	-	-	1.51	92.4	85.1	88.8	12.6	90	97	108	126	147	194	252	339	372	414	.6	2.5
279	3	64.4	.057	-	-	2.99	92.8	86.0	89.4	12.6	87	95	103	119	140	185	235	315	362	406	.9	2.1
280	3	63.5	.058	-	-	2.16	93.8	86.3	90.1	12.2	82	94	107	129	154	206	267	336	372	428	.6	1.4
281	1	-	-	-	-	-	92.3	85.0	88.7	12.7	114	127	139	159	182	237	303	400	446	415	1.0	.8
282	3	61.7	.071	-	-	1.62	92.4	85.1	88.8	12.8	84	93	104	122	142	189	244	325	359	398	1.0	2.0
283	3	62.7	.066	-	-	1.47	92.7	85.0	88.9	13.3	86	96	107	123	140	187	247	315	357	403	1.0	1.5
284	6	64.5	.042	-	-	2.05	92.9	84.8	88.9	13.2	87	93	105	122	140	179	220	281	326	353	.8	2.9
AVERAGE		62.8	.060	-	-	1.79	92.7	85.3	89.0	12.7	87	96	108	127	148	198	255	335	372	410	.9	1.9
SAMPLES	46																					

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1972-73
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 9 NORTH PLAINS--CONTINUED
MINN., N. DAK., AND S. DAK.

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS, G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
285	3	69.0	0.056	-	-	2.57	99.2	93.0	96.1	12.7	85	95	106	129	157	198	228	301	353	394	0.6	2.4
286	6	68.7	.056	-	-	2.83	99.6	93.7	96.7	12.6	85	93	109	137	167	207	235	314	356	407	.8	2.9
287	3	64.7	.034	-	-	3.26	98.5	93.8	96.2	11.4	82	97	113	148	180	213	238	300	343	386	.5	3.5
288	3	66.5	.028	-	-	2.28	99.0	92.6	95.8	12.6	80	94	105	126	152	205	241	310	343	401	.4	1.6
289	6	68.6	.016	-	-	2.07	99.7	91.9	95.8	13.6	81	88	103	123	144	191	232	310	344	388	.9	3.1
290	2	66.7	-	-	-	2.71	98.9	92.6	95.8	11.6	80	94	106	130	157	208	248	314	345	392	.3	1.7
291	3	70.7	.073	-	-	2.86	100.0	94.6	97.3	12.6	77	85	95	117	146	188	212	267	322	366	.3	1.7
292	3	65.7	.027	-	-	2.49	99.2	92.5	95.9	12.0	82	95	107	131	160	208	245	316	349	392	.3	1.1
293	1	-	-	-	-	-	99.2	93.6	96.4	12.3	89	98	114	139	167	207	233	310	354	392	.7	2.9
294	3	62.2	.072	-	-	2.65	99.3	93.5	96.4	12.4	86	94	106	131	159	208	242	304	344	390	.3	2.7
295	3	63.8	.012	-	-	3.38	99.6	95.4	97.5	11.3	81	102	113	141	171	217	249	311	336	374	.3	.7
296	5	65.7	.024	-	-	2.35	99.3	92.9	96.1	12.5	85	96	110	136	163	209	243	315	352	390	1.1	2.0
297	3	66.6	.055	-	-	2.29	99.6	94.0	96.8	12.8	80	93	106	131	160	199	227	294	340	380	.2	1.8
298	2	65.2	.057	-	-	2.34	99.3	92.3	95.8	12.0	83	95	111	136	165	209	273	320	355	398	.5	2.5
299	4	69.3	.076	1	-	2.58	99.2	93.1	96.2	13.7	84	92	108	132	160	202	227	300	332	394	.2	2.8
AVERAGE		66.7	.045	1	-	2.62	99.3	93.3	96.3	12.4	83	94	107	132	161	205	238	306	345	390	.5	2.2
SAMPLES	50																					

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1972-73
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 10 CENTRAL PLAINS
NEBR., CENTRAL AND WESTERN IOWA, NW MO., AND NORTHERN KANS.

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS, G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
300	1	-	-	-	-	-	93.5	87.0	90.3	12.3	88	97	109	130	154	202	253	343	-	406	1.1	1.8
301	3	67.3	0.021	-	-	1.45	92.1	85.3	88.7	13.3	84	97	108	127	148	194	238	303	329	382	1.0	1.0
302	3	64.5	-	-	-	1.52	93.4	86.0	89.7	12.1	82	95	106	126	145	192	246	330	365	408	1.5	.5
303	13	66.7	.051	-	-	1.20	92.2	85.9	89.1	13.0	84	92	102	118	137	185	235	312	345	398	.9	2.1
304	3	65.5	-	-	-	1.27	92.5	85.6	89.1	12.0	84	89	98	117	139	187	237	321	358	393	.5	.5
305	6	64.2	.033	-	-	1.67	93.1	86.1	89.6	11.4	86	95	109	131	152	196	247	322	360	420	1.1	1.7
306	10	65.1	.030	0	-	1.45	92.7	86.4	89.6	13.3	84	93	104	122	143	193	249	322	353	384	.9	2.2
307	6	64.8	.062	-	-	1.38	92.9	86.0	89.5	11.6	87	98	108	126	146	189	241	320	361	408	1.0	1.0
308	10	64.4	-	-	-	1.60	92.8	86.2	89.5	11.9	87	97	111	130	151	200	252	337	365	410	1.1	2.0
309	13	62.6	.078	-	-	2.33	93.6	84.9	89.3	12.2	84	95	109	130	153	198	245	316	336	379	.9	2.2
310	9	64.0	.042	-	-	1.62	92.8	85.5	89.2	11.8	84	98	108	124	140	186	241	320	353	403	.9	1.0
311	3	63.4	-	-	-	1.60	92.3	85.1	88.7	11.8	83	98	108	130	153	194	236	290	317	354	1.0	1.0
AVERAGE		64.8	.045	0	-	1.55	92.8	85.8	89.3	12.2	85	95	107	126	147	193	243	320	349	395	1.0	1.4
SAMPLES	80																					

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1972-73
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 10 CENTRAL PLAINS--CONTINUED
NEBR., CENTRAL AND WESTERN IOWA, NW MO., AND NORTHERN KANS.

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS, G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
312	4	65.9	0.023	-	-	2.17	99.2	92.1	95.7	11.3	89	102	114	135	159	206	244	316	353	405	1.0	1.1
313	11	66.7	.020	0	-	2.00	98.7	93.7	96.2	12.9	86	95	111	136	166	215	247	306	337	391	.7	2.7
314	9	66.5	.032	-	-	2.04	98.4	91.5	95.0	12.1	83	97	109	130	155	206	246	325	364	409	1.1	.9
315	10	66.8	-	-	-	2.07	99.1	92.4	95.8	11.7	86	99	113	137	163	212	249	332	370	416	.9	1.8
316	13	64.7	.020	-	-	2.09	100.1	92.0	96.1	11.9	83	95	110	135	161	209	240	294	313	364	.9	2.2
317	9	64.6	.032	-	-	2.44	99.2	92.0	95.6	11.6	85	100	111	132	155	206	248	325	349	405	1.1	.9
318	3	66.6	-	-	-	2.04	99.3	92.4	95.9	9.7	88	104	116	137	161	209	245	310	346	399	.5	1.0
319	9	66.5	.048	-	-	2.05	99.2	92.6	95.9	12.2	86	101	112	130	155	205	244	321	357	411	1.0	.7
320	3	68.1	.015	-	-	2.04	99.3	92.6	96.0	13.1	86	96	110	132	161	207	240	308	339	370	1.4	1.6
321	3	66.4	-	-	-	2.24	99.2	92.8	96.0	11.4	83	95	109	134	158	208	245	308	345	400	1.0	1.0
322	13	69.1	.032	-	-	1.72	99.1	92.7	95.9	13.1	84	93	105	124	144	192	235	315	354	406	.9	1.9
323	3	66.0	-	-	-	2.14	99.1	92.1	95.6	11.9	84	99	112	135	163	214	254	335	373	415	1.0	1.0
AVERAGE		66.5	.028	0	-	2.09	99.2	92.4	95.8	11.9	85	98	111	133	158	207	245	316	350	399	1.0	1.4
SAMPLES	90																					

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1972-73
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 11 SOUTH PLAINS
SOUTHERN KANS., SW MO., WESTERN ARK., OKLA., AND NORTHERN TEX.

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS. G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	LOSS RES %	LOSS %
324	3	63.4	0.023	-	-	2.37	92.5	86.3	89.4	9.7	87	106	117	137	152	197	247	306	343	386	0.9	1.1
325	14	62.4	.054	-	-	2.65	94.1	86.9	90.5	10.9	86	101	117	140	163	206	251	316	343	373	1.0	1.9
326	8	62.5	.018	-	-	2.16	93.0	86.3	89.7	11.9	81	92	105	123	142	191	254	335	374	407	.9	2.1
327	12	63.6	.050	1	-	1.82	93.3	86.5	89.9	11.7	83	96	107	126	147	196	259	334	368	404	1.0	1.5
328	6	64.3	.034	-	-	1.51	93.3	86.1	89.7	12.5	82	92	102	120	139	187	251	324	356	395	1.0	1.0
329	3	59.3	.045	-	-	1.85	94.2	87.4	90.8	9.9	88	99	109	131	165	243	298	362	382	400	.7	1.3
330	6	68.7	.030	1	-	2.91	93.2	88.9	91.1	11.4	89	101	113	132	151	192	234	319	363	409	1.0	1.8
331	17	64.7	.030	-	-	1.83	93.5	86.7	90.1	12.1	86	96	109	129	151	199	254	330	363	402	1.0	2.2
332	6	62.5	.083	-	-	2.13	93.7	86.5	90.1	11.0	86	98	109	128	147	198	260	343	373	413	1.2	1.1
333	3	65.1	.032	-	-	1.99	94.3	86.7	90.5	11.1	86	98	108	122	139	181	249	334	360	392	.8	1.2
334	7	64.2	.051	1	-	2.07	92.7	86.4	89.6	12.4	82	94	105	122	142	190	250	341	370	412	1.0	1.8
335	6	63.8	.071	-	-	2.45	92.9	86.2	89.6	11.9	83	95	106	123	141	186	242	330	372	412	1.0	1.3
336	5	64.8	.015	-	-	1.27	93.2	87.1	90.2	12.5	80	86	100	122	144	194	246	319	357	398	1.0	3.1
337	8	63.3	.008	1	-	1.69	92.6	86.3	89.5	12.0	82	91	105	127	151	200	248	324	357	409	1.1	2.0
338	9	64.2	.034	-	-	1.84	93.9	86.6	90.3	11.1	84	101	110	125	139	180	238	331	365	410	.9	.9
339	2	61.8	.021	-	-	2.31	92.9	86.2	89.6	9.3	88	107	118	134	148	188	239	328	370	420	1.0	1.0
340	3	61.4	.109	-	-	1.97	93.2	86.4	89.8	10.7	87	101	116	138	164	214	265	339	374	416	1.2	1.8
341	3	-	-	-	-	-	93.3	86.3	89.8	11.9	92	99	110	130	152	200	254	334	378	399	1.1	2.4
342	5	63.7	.027	-	-	1.42	92.3	85.3	88.8	10.3	86	103	116	141	167	217	260	328	355	406	.5	1.0
343	3	63.4	.015	-	-	1.98	93.1	86.6	89.9	12.4	86	95	104	119	137	181	244	334	374	406	1.0	1.5
AVERAGE		63.5	.039	1	-	2.01	93.3	86.6	90.0	11.3	85	98	109	128	149	197	252	331	365	403	1.0	1.6
SAMPLES	129																					

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1972-73
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 11 SOUTH PLAINS--CONTINUED
SOUTHERN KANS., SW MO., WESTERN ARK., OKLA., AND NORTHERN TEX.

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS. G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
344	8	65.5	0.016	0	-	2.32	99.3	92.9	96.1	12.4	84	95	109	134	164	205	239	314	358	411	1.1	2.4
345	9	62.9	.022	-	-	2.63	99.5	92.3	95.9	11.1	86	100	109	125	142	198	267	333	363	411	.8	.8
346	2	60.9	.038	-	-	3.40	99.4	92.7	96.1	9.6	88	109	125	154	181	223	261	335	361	415	1.0	1.0
347	3	64.3	.021	-	-	2.63	99.9	92.8	96.4	12.1	85	97	112	134	159	205	234	296	327	380	1.0	1.0
348	9	65.1	.012	-	-	2.46	99.0	92.6	95.8	12.2	87	98	111	136	163	211	248	317	350	390	.9	2.3
349	6	67.5	.023	-	-	2.04	98.9	93.3	96.1	12.1	86	98	110	135	164	209	238	317	357	393	1.0	1.0
350	3	62.6	.016	-	-	2.60	99.2	92.2	95.7	10.8	84	96	113	140	171	223	262	335	367	415	1.0	2.0
351	7	64.3	.019	1	-	2.44	99.0	93.1	96.1	12.6	81	96	109	136	171	221	261	345	371	422	1.0	2.0
352	3	66.5	.013	-	-	1.55	99.8	92.3	96.1	11.9	88	98	108	123	138	185	230	277	303	333	1.0	1.0
353	6	65.1	.024	-	-	2.62	100.0	93.0	96.5	12.1	85	101	110	133	159	204	242	313	346	402	.9	1.1
354	17	66.9	.019	-	-	2.48	99.3	92.9	96.1	11.4	86	97	111	135	162	210	251	324	366	409	.8	2.3
355	6	69.0	.017	0	-	2.98	99.3	94.1	96.7	11.7	88	108	116	132	152	205	242	323	373	419	1.0	2.0
356	3	58.0	.010	-	-	2.49	99.9	92.5	96.2	10.4	84	95	106	126	151	226	281	338	362	392	.8	1.7
357	6	65.8	.028	-	-	2.53	99.1	94.5	96.8	12.0	85	97	109	132	161	212	247	319	353	409	.8	1.3
358	12	63.4	.014	1	-	2.28	99.2	93.4	96.3	10.8	83	94	108	131	159	208	246	317	358	399	.9	1.7
359	8	66.1	.018	-	-	2.91	99.7	94.2	97.0	11.5	84	94	111	136	165	218	254	333	364	418	.7	2.5
360	14	62.4	.014	-	-	2.81	99.7	92.8	96.3	11.2	84	97	113	142	173	219	252	308	335	366	.8	2.0
361	2	69.1	.055	-	-	3.77	100.9	96.2	98.6	11.0	84	100	113	140	172	212	232	298	349	391	1.0	1.0
362	6	66.4	.024	-	-	2.45	99.4	92.6	96.0	12.2	82	96	107	128	155	208	247	326	363	416	1.0	1.3
363	5	66.4	.012	-	-	1.77	98.6	93.7	96.2	10.2	78	90	104	128	157	207	241	304	339	383	1.1	1.4
AVERAGE		64.9	.021	1	-	2.56	99.5	93.2	96.4	11.5	85	98	111	134	161	210	249	319	353	399	.9	1.6
SAMPLES	135																					

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1972-73
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 12 SOUTH TEXAS

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS, G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
364	3	62.4	-	-	-	1.97	94.4	87.2	90.8	12.4	84	97	111	131	153	196	245	316	350	380	1.2	1.8
365	3	62.2	-	-	-	3.82	92.7	86.8	89.8	9.7	90	114	127	144	162	199	243	299	317	348	1.1	.9
366	12	64.1	0.022	1	0.028	1.71	94.2	87.0	90.6	11.1	89	100	111	128	144	190	249	322	347	390	1.0	1.4
367	12	61.6	.008	0	.028	2.10	94.2	87.2	90.7	10.9	90	97	112	132	150	202	257	335	369	412	1.1	1.9
368	6	64.0	-	-	-	1.24	93.5	87.2	90.4	11.0	87	100	111	127	144	189	250	330	360	404	.9	1.4
369	9	66.9	.023	1	-	2.82	93.5	88.3	90.9	12.2	88	99	111	130	149	189	232	309	357	404	.9	2.1
370	6	60.8	.010	0	.028	1.48	93.6	87.0	90.3	11.1	87	90	109	129	147	208	289	340	378	403	.8	1.8
371	3	62.0	-	-	-	2.40	94.4	86.4	90.4	12.3	82	94	102	118	136	185	261	344	368	402	1.0	1.0
372	11	62.1	.012	-	-	2.31	94.1	87.2	90.7	11.4	88	99	111	131	149	201	261	345	374	416	1.0	1.6
373	12	62.7	.027	1	.028	2.53	93.9	86.7	90.3	10.4	87	99	115	135	156	204	254	323	348	397	1.0	1.7
374	7	63.1	.002	2	.028	2.18	94.7	87.6	91.2	9.8	95	109	120	135	148	183	234	334	362	401	.8	1.4
375	3	62.9	-	-	-	2.14	93.8	86.8	90.3	12.9	85	93	104	126	148	193	240	314	354	376	1.0	1.0
376	3	-	-	-	-	-	94.6	87.5	91.1	11.9	89	100	113	134	157	202	251	328	363	403	1.0	1.8
377	3	62.7	-	-	-	1.89	94.5	87.7	91.1	12.2	84	96	109	131	153	197	239	318	340	380	1.4	1.6
AVERAGE		62.9	.015	1	.028	2.20	94.0	87.2	90.6	11.4	88	99	112	131	150	196	250	326	356	394	1.0	1.5
SAMPLES	93																					

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1972-73
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 12 SOUTH TEXAS--CONTINUED

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS. G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES LOSS %	%
378	7	60.2	0.010	1	0.028	2.81	99.7	92.2	96.0	10.3	90	105	116	133	151	199	263	334	365	400	1.0	1.3
379	3	62.6	-	-	-	2.87	99.8	92.0	95.9	12.6	83	96	112	136	165	211	244	330	356	395	1.3	1.7
380	9	61.2	.051	-	-	2.95	99.5	92.4	96.0	12.0	85	99	114	139	169	214	255	332	363	405	1.0	1.7
381	3	61.8	-	-	-	2.30	100.1	92.4	96.3	12.7	84	95	109	136	169	211	240	308	341	390	1.1	1.9
382	3	61.5	-	-	-	2.70	100.0	92.2	96.1	12.5	85	99	113	141	172	214	242	310	341	394	1.2	1.8
383	3	62.4	-	-	-	4.10	99.7	90.4	95.1	9.1	96	112	118	129	138	170	226	302	324	356	.7	1.3
384	12	66.0	.011	0	.028	1.84	99.7	92.3	96.0	11.0	87	99	111	127	142	193	237	290	318	360	1.0	1.4
385	12	63.4	.014	0	.428	2.58	99.9	92.2	96.1	11.3	87	100	112	131	153	206	243	312	335	390	1.0	1.4
386	6	66.3	-	-	-	2.37	99.6	94.7	97.2	10.9	87	100	111	127	147	203	244	302	332	387	1.0	1.3
387	9	66.7	.019	1	-	2.92	99.6	94.5	97.1	12.1	87	99	109	129	152	205	246	317	364	413	1.0	2.0
388	6	60.0	.003	1	.028	2.29	99.9	92.4	96.2	11.2	88	94	109	132	160	218	274	315	366	389	1.2	1.8
389	3	63.0	-	-	-	2.76	99.8	91.5	95.7	11.5	86	99	111	129	151	198	239	292	316	374	1.0	.5
390	11	60.5	.010	-	-	2.85	99.8	92.8	96.3	11.3	88	100	112	136	161	220	272	333	352	406	1.0	1.4
391	11	60.7	.011	1	.028	2.36	99.9	92.6	96.3	10.2	90	104	119	145	174	216	251	306	330	375	1.0	1.5
AVERAGE		62.6	.016	1	.108	2.69	99.8	92.5	96.2	11.3	87	100	113	134	157	206	248	313	343	388	1.0	1.5
SAMPLES	98																					

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1972-73
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 13 SOUTH MT. STATES
SW KANS., OKLA. AND TEX. PANHANDLES, W. TEX., N. MEX., COLO., UTAH, ARIZ., NEV., AND E. CALIF.

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS. G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	5	10	20	30	50	70	90	95	EP	RES %	LOSS %
											PERCENT EVAPORATED											
392	21	65.8	.126	2	0.014	1.48	92.1	85.5	88.8	11.2	89	102	112	128	144	185	238	325	370	406	1.0	1.6
393	21	66.5	.022	1	.714	2.68	91.7	86.5	89.1	11.8	90	100	111	130	150	194	245	333	383	418	.9	2.0
394	15	59.8	.061	0	.009	1.73	93.4	86.4	89.9	10.5	89	103	115	134	153	200	259	340	375	410	1.0	1.3
395	3	62.5	-	-	-	1.35	91.2	85.1	88.2	12.5	81	96	106	127	151	196	260	339	390	434	.7	1.8
396	22	62.3	.062	2	.009	1.76	92.6	85.8	89.2	11.6	86	99	112	132	153	203	254	334	374	416	.9	2.3
397	25	60.2	.023	1	.009	1.19	93.6	85.5	89.6	11.3	87	100	113	133	154	200	258	341	373	409	.9	1.8
398	37	61.8	.069	3	.009	1.96	92.9	85.3	89.1	10.6	89	103	118	140	162	209	262	333	362	396	.9	1.7
399	16	61.1	.031	1	.009	1.27	93.9	85.7	89.8	11.6	87	98	112	133	156	206	266	337	367	413	1.0	2.5
400	5	62.4	-	-	-	1.90	91.9	84.5	88.2	10.6	88	103	112	130	148	191	251	324	360	404	1.0	1.0
401	6	62.2	-	-	-	1.60	91.5	85.0	88.3	12.5	85	98	113	139	164	212	262	338	354	409	.8	2.6
402	24	61.2	.041	2	.009	1.77	93.2	85.4	89.3	11.3	88	98	112	133	153	200	256	332	372	406	1.0	2.1
403	3	66.2	-	-	-	1.42	91.4	85.2	88.3	12.2	83	96	108	127	150	199	254	335	371	422	.9	2.6
404	4	-	-	-	-	-	92.9	85.8	89.4	12.2	88	101	114	133	151	193	247	339	385	403	1.0	1.5
405	23	62.8	.028	1	.001	2.03	92.5	86.2	89.4	11.1	87	102	113	130	150	194	248	330	371	406	1.0	1.4
406	16	61.8	.040	1	.001	1.76	93.6	86.0	89.8	11.1	89	103	115	135	159	207	264	339	373	405	.9	1.6
407	2	62.0	-	-	-	1.06	90.7	83.7	87.2	-	-	-	-	-	-	-	-	-	-	-	-	-
AVERAGE		62.6	.050	1	.078	1.66	92.4	85.5	89.0	11.5	87	100	112	132	153	199	255	335	372	410	.9	1.9
SAMPLES	243																					

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1972-73
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 13 SOUTH MT. STATES--CONTINUED
SW KANS., OKLA. AND TEX. PANHANDLES, W. TEX., N. MEX., COLO., UTAH, ARIZ., NEV., AND E. CALIF.

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS, G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
408	14	63.0	-	-	-	2.02	98.0	91.1	94.6	12.0	86	100	118	145	173	218	261	338	352	402	1.1	2.4
409	23	64.5	0.019	0	0.001	2.41	99.0	93.2	96.1	11.2	87	100	112	131	152	205	243	318	362	402	.9	1.6
410	16	63.6	.030	0	.001	2.40	99.3	92.0	95.7	10.8	87	101	115	139	165	215	257	333	373	406	1.0	2.1
411	3	60.2	-	-	-	2.59	97.2	88.6	92.9	10.2	90	110	127	163	196	233	271	350	382	427	.5	3.0
412	21	67.5	.022	3	.014	1.79	98.3	91.7	95.0	11.3	87	100	110	127	146	197	242	320	361	401	.9	1.8
413	21	68.4	.019	1	-	2.82	98.6	94.1	96.4	11.8	89	100	111	131	154	206	247	331	379	419	1.0	2.0
414	15	60.8	.024	5	.010	2.30	99.8	92.3	96.1	10.8	87	103	117	141	167	213	252	324	353	396	.9	1.5
415	3	63.4	-	-	-	2.20	96.5	88.8	92.7	12.8	83	91	102	123	149	205	253	339	380	428	.6	4.4
416	22	64.2	.032	5	.028	2.38	98.8	92.5	95.7	11.7	88	99	112	136	161	212	249	327	366	415	1.0	2.1
417	25	61.3	.015	2	.009	1.95	99.1	91.8	95.5	11.3	86	98	117	146	175	221	263	330	357	402	1.0	2.6
418	37	62.3	.020	1	.009	2.48	98.7	91.5	95.1	10.3	89	104	119	142	166	212	253	318	352	389	.9	1.5
419	16	60.2	.020	1	.009	2.33	99.1	91.1	95.1	10.9	88	100	116	139	166	217	262	328	368	415	1.0	2.4
420	6	62.8	-	-	-	2.73	98.4	90.4	94.4	10.2	89	106	121	145	169	220	266	334	372	413	1.0	1.6
421	6	62.8	-	-	-	1.97	97.1	89.4	93.3	12.1	87	100	115	142	169	222	272	343	365	409	.7	2.7
422	23	60.8	.033	3	.009	2.39	99.0	91.8	95.4	11.0	87	98	113	135	159	213	258	329	365	411	1.1	2.2
423	3	67.2	-	-	-	1.85	97.0	89.7	93.4	9.5	93	102	108	119	131	183	245	319	357	407	.5	1.5
AVERAGE		63.3	.023	2	.010	2.29	98.4	91.3	94.9	11.1	88	101	115	138	162	212	256	330	365	409	.9	2.2
SAMPLES	254																					

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1972-73
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 14 NORTH MT. STATES
WYO., MONT., IDAHO, EASTERN WASH., AND EASTERN OREG.

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF. ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS. G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
424	7	62.6	0.045	0	0.000	1.39	93.4	85.4	89.4	12.2	80	89	99	122	146	197	252	332	365	412	1.0	4.1
425	11	63.5	.052	0	.001	1.61	93.9	86.8	90.4	12.4	82	94	107	130	153	204	254	336	381	412	1.1	2.8
426	8	62.8	.049	1	.002	1.05	93.2	84.6	88.9	13.8	82	90	102	122	144	192	249	328	352	394	.9	3.8
427	6	62.5	.046	-	-	1.41	93.4	85.1	89.3	11.7	86	96	108	130	154	199	249	325	361	401	.9	3.1
428	9	64.0	.034	1	-	1.37	93.1	85.6	89.4	12.8	77	91	102	123	146	196	248	319	361	393	.8	3.8
429	19	62.7	.046	0	.000	1.58	92.6	85.5	89.1	12.7	84	95	106	129	153	205	259	340	386	417	.9	3.1
430	10	62.8	.037	0	.000	1.25	93.8	85.7	89.8	12.7	78	91	102	122	147	198	255	336	366	404	1.0	3.1
431	10	62.4	.037	0	.001	1.64	93.0	86.0	89.5	12.4	78	91	102	125	151	203	262	342	379	410	1.0	3.2
432	10	65.3	.028	1	.000	1.33	93.6	86.4	90.0	12.6	82	94	106	127	150	196	245	315	347	380	1.0	2.6
433	14	62.5	.043	1	.000	1.42	93.4	85.3	89.4	12.9	82	93	106	129	152	202	256	333	367	402	1.1	3.1
434	10	63.5	.051	1	.000	1.60	93.3	86.2	89.8	12.1	80	94	105	125	149	198	250	327	371	412	1.1	2.4
435	3	61.8	.047	-	-	1.10	94.6	85.3	90.0	14.1	85	91	101	123	149	200	256	326	360	396	1.1	3.9
436	13	62.8	.046	0	.000	1.19	93.7	85.3	89.5	12.3	78	93	105	127	152	200	254	328	362	400	1.0	2.8
AVERAGE		63.0	.043	0	.000	1.38	93.5	85.6	89.6	12.7	81	92	104	126	150	199	253	330	366	403	1.0	3.2
SAMPLES	130																					

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1972-73
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 14 NORTH MT. STATES--CONTINUED
WYO., MONT., IDAHO, EASTERN WASH., AND EASTERN OREG.

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS, G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
437	13	65.1	0.028	0	0.003	2.25	99.5	91.7	95.6	12.0	80	97	110	134	161	208	244	313	358	396	1.0	2.4
438	7	66.8	.057	1	.001	2.10	99.1	92.1	95.6	12.2	81	92	107	132	162	209	246	342	376	417	1.0	2.8
439	16	66.2	.048	1	.000	2.08	98.4	91.5	95.0	12.4	80	94	107	132	160	209	245	336	386	421	1.0	2.8
440	8	64.3	.039	1	.000	2.38	99.5	91.1	95.3	13.4	82	93	108	134	161	211	252	327	354	399	1.0	3.1
441	6	67.3	.043	-	-	1.57	99.1	91.4	95.3	12.2	83	90	102	133	166	209	236	319	363	415	.9	3.1
442	9	66.7	.041	1	-	2.06	98.7	91.2	95.0	12.4	77	91	103	127	157	209	249	341	382	424	.9	3.7
443	19	63.4	.043	0	.002	2.12	98.8	91.1	95.0	12.4	84	97	108	133	164	216	255	334	375	414	.9	3.3
444	10	66.5	.027	0	.000	1.92	99.7	92.0	95.9	11.7	80	96	108	132	160	207	242	316	360	393	1.0	2.4
445	10	65.7	.035	0	.011	2.15	99.0	92.1	95.6	11.5	81	100	111	134	161	208	249	333	383	406	1.0	2.5
446	10	67.5	.039	1	.002	1.68	99.3	93.0	96.2	12.3	81	98	109	130	149	198	236	300	330	370	.9	2.2
447	14	63.7	.028	0	.001	2.41	99.5	91.3	95.4	12.3	86	99	112	137	162	213	254	326	362	398	1.0	2.8
448	10	66.7	.054	1	.002	2.18	98.7	91.6	95.2	11.9	80	95	107	131	159	207	243	339	380	413	1.0	3.0
449	3	67.9	.041	-	-	1.98	99.7	92.7	96.2	13.1	80	91	104	129	159	206	241	323	378	423	.6	2.4
AVERAGE		66.0	.040	1	.002	2.07	99.2	91.8	95.5	12.3	81	95	107	132	160	208	246	327	368	407	.9	2.8
SAMPLES	135																					

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1972-73
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 15 PACIFIC NORTHWEST
WESTERN WASH. AND WESTERN OREG.

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF. ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS. G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES LOSS %	%
450	11	62.5	0.033	2	0.001	0.83	94.3	86.4	90.4	13.5	83	92	100	117	137	191	261	350	387	421	1.1	2.0
451	11	63.4	.016	1	.000	1.95	93.0	87.6	90.3	13.3	83	93	104	125	150	204	258	327	350	384	1.1	2.9
452	8	62.7	.017	1	.000	1.78	93.3	86.9	90.1	13.2	84	93	103	123	146	200	258	342	376	408	1.1	2.3
453	11	62.9	.012	1	.000	2.11	93.3	86.8	90.1	12.8	85	95	109	133	161	215	264	339	368	400	1.0	3.3
454	9	62.2	.023	1	.001	1.13	94.1	86.3	90.2	13.3	85	93	104	123	144	199	266	352	385	420	1.2	2.7
455	10	61.2	.017	1	.001	1.84	92.2	87.5	89.9	13.5	82	89	105	135	165	214	257	324	349	390	1.0	4.5
456	6	63.0	.021	2	.001	1.34	94.1	86.9	90.5	12.9	83	90	105	126	142	200	260	338	372	400	1.0	3.0
457	3	65.7	.010	1	.002	3.33	93.9	89.3	91.6	12.2	80	90	100	119	135	180	241	303	331	370	1.0	3.0
458	5	61.7	.022	1	.003	2.56	94.2	87.0	90.6	12.2	84	96	110	137	167	219	268	346	380	398	1.0	3.3
AVERAGE		62.8	.019	1	.001	1.87	93.6	87.2	90.4	13.0	83	92	104	126	150	202	259	336	366	399	1.1	3.0
SAMPLES	74																					

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1972-73
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 15 PACIFIC NORTHWEST--CONTINUED
WESTERN WASH. AND WESTERN OREG.

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS. G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	5	10	20	30	50	70	90	95	EP	RES LOSS %	%
459	10	62.6	0.011	2	0.001	2.44	100.0	91.5	95.8	12.7	83	91	105	128	154	212	261	322	347	386	1.0	3.1
460	9	62.3	.017	1	.001	1.95	99.9	91.4	95.7	13.3	83	93	104	128	157	212	251	312	343	400	1.0	2.6
461	10	60.0	.006	1	.000	2.48	98.9	92.1	95.5	13.0	81	92	105	129	155	214	270	327	352	398	1.0	3.0
462	6	64.6	.027	1	.001	1.82	99.9	91.8	95.9	12.6	80	91	102	124	147	200	238	299	349	382	.9	3.2
463	4	60.5	.014	2	.001	3.34	99.7	92.9	96.3	11.8	85	95	103	118	135	195	264	319	343	381	.9	1.9
464	5	62.6	.014	1	.015	2.40	100.1	91.3	95.7	12.3	82	93	105	129	155	210	257	319	347	391	.8	2.7
465	11	64.9	.016	1	.000	1.75	99.8	91.7	95.8	12.6	84	94	107	129	154	203	238	298	333	380	1.0	2.8
466	11	66.8	.011	1	.009	2.12	99.7	93.2	96.5	12.4	85	97	108	127	148	194	235	301	335	378	1.0	2.0
467	9	64.9	.007	1	.001	2.27	99.7	92.8	96.3	12.2	82	94	107	128	150	199	244	310	342	386	.8	2.1
AVERAGE		63.2	.014	1	.003	2.29	99.7	92.1	95.9	12.5	83	93	105	127	151	204	251	312	343	387	.9	2.6
SAMPLES	75																					

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1972-73
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 16 NORTH CALIFORNIA

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS. G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
468	5	58.4	0.037	1	0.001	1.87	94.5	87.4	91.0	10.4	93	110	124	150	176	224	269	335	363	403	1.0	1.3
469	8	58.6	.053	1	.002	1.95	94.5	85.8	90.2	11.1	85	98	115	142	169	219	271	343	369	401	.9	2.6
470	3	60.8	-	-	-	.77	91.1	81.7	86.4	10.9	89	105	121	144	167	213	269	347	373	407	.4	1.6
471	8	61.4	.024	1	.002	1.42	94.5	85.6	90.1	12.0	82	90	104	127	151	204	264	344	375	409	1.1	3.1
472	8	61.1	.033	1	.001	1.27	94.0	86.0	90.0	10.6	88	103	118	139	161	206	253	323	356	410	1.0	2.0
473	8	63.2	.011	1	.001	.43	94.5	86.1	90.3	10.3	88	102	114	131	147	188	237	319	354	406	1.0	1.6
474	8	59.7	.090	4	.002	1.75	94.6	85.3	90.0	10.7	87	100	115	136	157	208	268	346	374	414	1.0	2.1
475	8	58.9	.006	2	.001	.41	93.9	86.3	90.1	11.2	84	94	108	129	152	209	275	334	363	413	1.0	2.7
476	8	59.6	.065	1	.014	1.85	94.8	85.1	90.0	10.9	89	100	114	136	160	210	271	346	377	412	1.0	2.7
477	2	61.4	-	-	-	1.08	92.6	83.9	88.3	-	-	-	-	-	-	-	-	-	-	-	-	-
478	5	60.4	.062	1	.001	1.67	95.0	85.4	90.2	11.2	89	102	114	136	158	205	263	341	376	411	.9	1.6
AVERAGE		60.3	.042	1	.003	1.32	94.0	85.3	89.7	10.9	87	100	115	137	160	209	264	338	368	409	.9	2.1
SAMPLES	71																					

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1972-73
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 16 NORTH CALIFORNIA--CONTINUED

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS. G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
479	3	60.8	-	-	-	1.72	99.4	91.5	95.5	12.1	88	100	111	127	145	188	241	295	323	360	1.0	2.5
480	5	59.5	0.008	1	0.001	1.05	99.6	91.6	95.6	10.7	96	106	118	143	170	216	256	324	354	403	.9	2.4
481	5	55.8	.007	1	.001	1.92	99.7	92.0	95.9	11.4	86	101	115	144	173	227	271	325	356	407	1.0	2.7
482	8	61.1	.025	1	.026	2.31	100.0	91.5	95.8	11.2	87	99	115	141	167	216	259	331	360	388	.9	2.7
483	3	60.3	-	-	-	1.48	100.0	91.8	95.9	10.7	85	104	120	148	176	225	265	326	362	411	.6	2.4
484	8	57.8	.008	1	.001	2.09	100.1	91.5	95.8	12.4	83	93	108	134	164	215	261	323	354	397	1.0	3.8
485	8	60.6	.018	1	.001	2.28	99.9	91.5	95.7	10.7	86	99	115	135	157	202	254	328	356	400	.9	2.1
486	8	60.2	.011	2	.002	2.49	99.9	91.2	95.6	10.6	90	102	113	130	148	190	247	319	349	397	1.0	1.5
487	8	58.7	.007	2	.000	1.48	100.1	91.9	96.0	10.9	86	99	116	142	171	220	262	329	358	410	1.0	2.2
488	8	57.6	.012	1	.001	1.55	99.1	91.1	95.1	11.1	86	99	114	136	159	209	259	317	343	387	1.0	2.3
489	8	60.6	.012	1	.001	1.98	99.9	91.7	95.8	10.9	88	100	117	144	172	222	261	329	355	396	1.0	2.6
AVERAGE		59.4	.012	1	.004	1.85	99.8	91.6	95.7	11.2	87	100	115	139	164	212	258	322	352	396	.9	2.5
SAMPLES	72																					

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1972-73
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 17 SOUTH CALIFORNIA

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS. G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	5	10	20	30	50	70	90	95	EP	RES %	LOSS %
											PERCENT EVAPORATED											
490	10	57.9	.116	1	0.023	1.67	94.5	85.1	89.8	11.6	86	97	114	143	174	226	280	352	377	408	1.2	2.8
491	3	62.0	-	-	-	1.33	91.5	85.3	88.4	11.8	87	103	114	133	152	190	240	329	364	410	.9	2.1
492	5	58.7	.084	1	.014	1.71	94.3	85.5	89.9	11.8	87	100	115	137	167	218	276	346	378	414	1.1	2.7
493	8	60.1	.081	1	.015	1.11	93.9	86.3	90.1	10.9	88	99	113	132	153	202	261	345	382	421	1.0	2.4
494	6	59.3	.083	4	.010	1.97	94.4	85.8	90.1	11.1	88	102	115	138	160	212	270	350	381	418	1.0	2.4
495	3	61.5	-	-	-	1.04	91.3	83.9	87.6	10.5	88	101	114	133	153	196	240	333	366	412	.9	1.6
496	11	57.3	.076	1	.009	1.69	94.6	85.4	90.0	10.1	88	103	117	140	162	215	284	359	386	415	1.1	1.9
497	13	56.9	.052	2	.010	1.36	94.5	85.3	89.9	10.7	85	99	111	134	160	222	297	367	396	421	1.1	1.7
498	11	61.4	.051	1	.009	.47	94.6	85.0	89.8	11.6	88	98	110	127	146	193	251	316	345	389	1.1	2.1
499	10	57.0	.047	1	.009	.76	94.9	85.0	90.0	10.4	87	101	116	140	166	224	284	344	366	399	1.1	1.9
500	9	59.5	.027	1	.009	.49	93.6	85.0	89.3	11.5	84	95	108	129	152	205	275	360	395	430	1.0	2.5
AVERAGE		59.2	.069	1	.012	1.24	93.8	85.2	89.5	11.1	87	100	113	135	159	209	269	346	376	412	1.0	2.2
SAMPLES	89																					

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1972-73
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 17 SOUTH CALIFORNIA--CONTINUED

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS, G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
501	10	58.5	0.053	1	0.014	2.69	99.7	91.4	95.6	11.9	83	93	105	125	150	220	273	329	355	397	1.0	2.5
502	3	54.2	-	-	-	2.52	100.1	91.1	95.6	10.3	90	111	138	188	221	258	290	330	357	410	.8	3.7
503	5	59.9	.055	1	.014	2.82	100.0	91.8	95.9	11.3	83	98	109	128	149	215	267	328	358	407	1.0	1.3
504	8	59.7	.039	1	.014	3.49	100.1	92.6	96.4	11.0	86	99	113	136	160	211	260	331	363	413	1.0	1.9
505	6	58.6	.056	1	.010	2.66	100.1	91.3	95.7	11.4	87	98	111	132	156	217	264	322	359	404	1.0	2.1
506	3	56.0	-	-	-	3.01	100.4	91.9	96.2	9.3	91	109	129	160	194	236	277	338	373	403	1.1	2.9
507	11	59.7	.034	5	.009	2.28	100.1	91.5	95.8	11.0	86	97	114	139	166	215	253	317	346	393	1.0	2.5
508	11	58.6	.059	2	.014	2.34	100.3	91.3	95.8	11.1	85	98	111	133	157	210	253	322	353	409	1.0	2.4
509	11	59.9	.038	1	.009	2.44	99.7	91.4	95.6	11.4	86	96	110	131	153	202	253	310	338	391	1.0	2.4
510	10	59.3	.030	1	.009	2.95	99.5	91.5	95.5	10.4	86	99	115	138	164	214	260	316	343	387	1.0	2.0
511	9	58.5	.012	1	.009	1.79	99.1	91.6	95.4	11.9	82	92	108	134	163	216	259	326	370	420	1.0	2.7
AVERAGE		58.4	.042	2	.011	2.64	99.9	91.6	95.8	11.0	86	99	115	140	167	219	264	324	356	403	1.0	2.4
SAMPLES	87																					

TABLE 4. - MOTOR GASOLINE SURVEY, WINTER 1972-73
AVERAGE DATA FOR BRANDS IN EACH DISTRICT

REGULAR-PRICE GASOLINE

DISTRICT NO. AND NAME	NO. OF BRANDS	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS, G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES LOSS %	%
1 NORTHEAST	14	65	62.3	0.034	1	-	1.90	94.7	87.0	90.9	12.5	80	90	104	124	148	200	264	338	367	404	1.0	2.7
2 MID-ATLANTIC COAST	18	248	62.4	.037	1	0.007	1.91	94.6	87.0	90.8	12.8	83	93	105	125	148	202	264	338	369	409	1.0	2.3
3 SOUTHEAST	18	210	62.1	.031	1	-	2.09	94.5	87.2	90.9	11.2	86	99	112	131	153	200	259	337	369	408	1.0	1.4
4 APPALACHIAN	17	169	62.8	.035	2	.011	2.07	94.6	87.0	90.8	12.9	82	93	105	125	148	198	255	335	371	413	1.0	2.1
5 MICHIGAN	15	99	62.9	.025	1	.005	1.55	94.6	86.7	90.7	13.5	80	89	101	121	144	196	252	327	358	404	.9	2.4
6 NORTH ILLINOIS	13	69	62.7	.045	1	.006	2.00	94.7	86.8	90.8	13.0	84	93	104	122	144	197	257	332	362	403	1.0	2.4
7 CENTRAL MISSISSIPPI	20	125	62.4	.029	4	.004	1.81	94.4	86.9	90.7	12.8	83	94	106	125	148	199	258	337	369	409	1.0	1.6
8 LOWER MISSISSIPPI	19	148	62.7	.029	0	.000	2.25	94.1	87.1	90.6	12.0	84	98	109	130	152	201	258	336	368	408	1.0	1.6
9 NORTH PLAINS	13	46	62.8	.060	-	-	1.79	92.7	85.3	89.0	12.7	87	96	108	127	148	198	255	335	372	410	.9	1.9
10 CENTRAL PLAINS	12	80	64.8	.045	0	-	1.55	92.8	85.8	89.3	12.2	85	95	107	126	147	193	243	320	349	395	1.0	1.4
11 SOUTH PLAINS	20	129	63.5	.039	1	-	2.01	93.3	86.6	90.0	11.3	85	98	109	128	149	197	252	331	365	403	1.0	1.6
12 SOUTH TEXAS	14	93	62.9	.015	1	.028	2.20	94.0	87.2	90.6	11.4	88	99	112	131	150	196	250	326	356	394	1.0	1.5
13 SOUTH MOUNTAIN STATES	16	243	62.6	.050	1	.078	1.66	92.4	85.5	89.0	11.5	87	100	112	132	153	199	255	335	372	410	.9	1.9
14 NORTH MOUNTAIN STATES	13	130	63.0	.043	0	.000	1.38	93.5	85.6	89.6	12.7	81	92	104	126	150	199	253	330	366	403	1.0	3.2
15 PACIFIC NORTHWEST	9	74	62.8	.019	1	.001	1.87	93.6	87.2	90.4	13.0	83	92	104	126	150	202	259	336	366	399	1.1	3.0
16 NORTH CALIFORNIA	11	71	60.3	.042	1	.003	1.32	94.0	85.3	89.7	10.9	87	100	115	137	160	209	264	338	368	409	.9	2.1
17 SOUTH CALIFORNIA	11	89	59.2	.069	1	.012	1.24	93.8	85.2	89.5	11.1	87	100	113	135	159	209	269	346	376	412	1.0	2.2
AVERAGE			62.5	.038	1	.013	1.80	93.9	86.4	90.2	12.2	84	95	108	128	150	200	257	334	366	405	1.0	2.1
SAMPLES 2,088																							

TABLE 4. - MOTOR GASOLINE SURVEY, WINTER 1972-73
AVERAGE DATA FOR BRANDS IN EACH DISTRICT--CONTINUED

PREMIUM-PRICE GASOLINE

DISTRICT NO. AND NAME	NO. OF BRANDS	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS, G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
1 NORTHEAST	15	68	61.0	0.015	1	-	2.40	100.2	91.8	96.0	12.9	82	90	103	125	150	209	256	319	346	388	0.9	2.7
2 MID-ATLANTIC COAST	19	257	61.2	.022	1	0.005	2.37	100.0	91.9	96.0	12.9	82	92	105	127	152	210	257	320	351	397	1.0	2.5
3 SOUTHEAST	18	210	61.2	.021	1	-	2.42	100.0	92.3	96.2	11.3	85	99	112	135	160	213	258	324	354	397	.9	1.6
4 APPALACHIAN	17	167	61.9	.010	2	.009	2.29	99.9	92.5	96.2	13.0	83	92	104	127	154	209	257	324	355	400	.9	2.9
5 MICHIGAN	15	95	63.9	.013	1	.005	2.12	99.5	92.2	95.9	13.5	80	87	102	125	152	205	247	318	352	396	.9	3.1
6 NORTH ILLINOIS	13	68	64.8	.028	1	.028	2.24	99.8	92.8	96.3	12.7	84	93	106	129	156	205	243	313	350	395	1.0	2.5
7 CENTRAL MISSISSIPPI	21	130	63.7	.015	3	.004	2.40	99.8	92.4	96.1	12.5	82	95	108	132	160	209	249	317	353	398	.9	1.8
8 LOWER MISSISSIPPI	19	153	62.6	.022	0	.000	2.46	99.9	92.4	96.2	12.0	84	97	109	132	159	210	252	321	351	397	1.0	1.8
9 NORTH PLAINS	15	50	66.7	.045	1	-	2.62	99.3	93.3	96.3	12.4	83	94	107	132	161	205	238	306	345	390	.5	2.2
10 CENTRAL PLAINS	12	90	66.5	.028	0	-	2.09	99.2	92.4	95.8	11.9	85	98	111	133	158	207	245	316	350	399	1.0	1.4
11 SOUTH PLAINS	20	135	64.9	.021	1	-	2.56	99.5	93.2	96.4	11.5	85	98	111	134	161	210	249	319	353	399	.9	1.6
12 SOUTH TEXAS	14	98	62.6	.016	1	.108	2.69	99.8	92.5	96.2	11.3	87	100	113	134	157	206	248	313	343	388	1.0	1.5
13 SOUTH MOUNTAIN STATES	16	254	63.3	.023	2	.010	2.29	98.4	91.3	94.9	11.1	88	101	115	138	162	212	256	330	365	409	.9	2.2
14 NORTH MOUNTAIN STATES	13	135	66.0	.040	1	.002	2.07	99.2	91.8	95.5	12.3	81	95	107	132	160	208	246	327	368	407	.9	2.8
15 PACIFIC NORTHWEST	9	75	63.2	.014	1	.003	2.29	99.7	92.1	95.9	12.5	83	93	105	127	151	204	251	312	343	387	.9	2.6
16 NORTH CALIFORNIA	11	72	59.4	.012	1	.004	1.85	99.8	91.6	95.7	11.2	87	100	115	139	164	212	258	322	352	396	.9	2.5
17 SOUTH CALIFORNIA	12	87	58.4	.042	2	.011	2.64	99.9	91.6	95.8	11.0	86	99	115	140	167	219	264	324	356	403	1.0	2.4
AVERAGE			63.0	.023	1	.016	2.34	99.6	92.2	95.9	12.1	84	95	109	132	158	209	251	319	352	397	.9	2.2
SAMPLES 2,144																							

TABLE 5. - MOTOR GASOLINE SURVEY, WINTER 1972-73
DATA FOR SOME ADDITIONAL GRADES

THIRD-GRADE GASOLINE

DISTRICT AND ITEM NUMBERS	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS, G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	5	10	20	30	50	70	90	95	EP	RES %	LOSS %
1 512	1	63.6	-	-	-	0.43	93.9	86.8	90.4	15.4	69	-	89	112	-	197	-	335	-	400	1.0	4.0
1 513	5	61.0	0.028	2	-	.34	91.3	83.0	87.2	12.4	75	85	100	126	149	211	269	347	370	416	1.0	3.2
1 514	1	65.0	-	-	-	-	96.0	88.1	92.1	13.1	74	-	84	108	-	186	-	292	-	374	1.0	3.1
1 515	3	59.4	.018	-	-	.27	94.2	86.9	90.6	13.1	76	88	97	120	141	216	249	303	326	398	1.0	3.1
1 516	1	60.0	-	-	-	.39	94.0	86.7	90.4	9.3	85	-	124	146	-	217	-	309	-	383	1.0	1.5
1 517	1	61.2	.032	-	-	-	92.2	82.4	87.3	11.3	84	99	114	135	155	196	241	300	330	376	.9	1.6
1 518	3	59.9	.011	1	-	.00	91.4	83.4	87.4	11.1	82	94	110	131	150	207	271	340	369	419	1.1	2.0
2 519	12	59.3	.028	1	0.000	.10	93.4	82.8	88.1	10.4	87	103	117	140	165	216	268	337	370	409	.9	1.7
2 520	10	58.5	.010	1	.002	.02	91.3	84.0	87.7	10.7	85	103	117	141	167	224	280	339	368	421	1.1	1.8
2 521	1	61.5	.010	1	.003	.35	95.0	86.7	90.9	14.6	84	-	97	116	141	199	252	315	-	374	1.0	5.0
2 522	16	59.9	.032	1	.002	.36	91.7	83.6	87.7	11.8	81	95	106	129	155	213	279	347	376	416	1.0	2.4
2 523	1	63.8	.006	0	.000	.23	96.2	87.0	91.6	11.0	85	100	114	130	150	198	234	287	372	378	1.0	2.0
2 524	13	60.7	.028	1	.003	.36	94.5	86.8	90.7	12.4	85	101	111	129	149	196	248	307	336	393	.9	1.5
2 525	10	60.9	.024	1	.001	.53	94.1	86.1	90.1	11.7	86	98	115	141	168	220	262	316	342	384	1.0	2.5
3 526	2	63.6	-	-	-	.38	96.5	87.4	92.0	11.1	87	-	111	130	-	193	-	281	-	375	1.0	2.8
3 527	2	58.8	.013	-	-	.53	95.0	87.4	91.2	10.1	88	105	118	142	164	222	270	320	347	398	1.0	1.0
3 528	11	60.9	.027	-	-	.15	92.3	83.4	87.9	9.1	95	117	125	143	159	196	239	328	368	417	.9	1.2
3 529	5	60.9	-	-	-	.59	94.1	86.1	90.1	12.7	86	97	108	132	161	227	277	319	338	382	.5	1.5
3 530	10	60.7	.028	-	-	.05	93.6	83.3	88.5	11.1	87	99	115	138	157	209	254	330	351	396	.8	1.3
3 531	10	62.2	.074	-	-	.44	91.3	83.7	87.5	11.0	86	99	112	131	149	198	252	329	354	406	.8	.7
4 532	15	59.3	.020	1	.008	.43	94.6	86.9	90.8	12.0	84	96	109	131	156	206	259	315	348	393	1.0	1.5
4 533	1	61.0	.017	2	.007	.14	91.8	83.4	87.6	8.5	92	115	130	149	166	196	236	314	356	414	1.0	.5
4 534	12	59.2	.025	1	.083	.10	92.7	83.9	88.3	11.8	85	99	111	135	162	217	269	330	354	384	.9	1.8
4 535	5	62.0	.026	1	.016	.78	93.4	86.1	89.8	13.0	82	93	105	127	152	203	265	343	369	416	.9	2.1
4 536	9	56.7	.014	1	.013	.53	94.0	85.0	89.5	10.0	87	105	122	154	186	235	273	320	348	392	.9	1.3

TABLE 5. - MOTOR GASOLINE SURVEY, WINTER 1972-73
DATA FOR SOME ADDITIONAL GRADES--CONTINUED

THIRD-GRADE GASOLINE--CONTINUED

DISTRICT AND ITEM NUMBERS	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS, G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
4 537	3	59.4	.027	2	.002	.04	93.6	83.4	88.5	10.3	90	106	119	143	164	216	266	332	359	410	1.0	1.3
4 538	7	58.3	.036	0	.014	.07	91.8	84.3	88.1	10.7	87	101	114	136	160	221	286	341	365	425	1.1	1.1
4 539	15	61.5	.023	1	.009	.40	91.6	83.9	87.8	12.9	82	93	105	129	154	208	263	337	370	408	1.0	1.6
4 540	8	60.6	.023	2	.011	.06	91.9	83.2	87.6	11.5	85	100	112	133	158	209	257	333	366	405	.9	1.3
5 541	6	63.5	.018	1	.007	.33	91.2	84.3	87.8	13.7	78	88	101	124	151	204	247	315	350	396	.9	2.5
5 542	4	61.4	.022	1	.029	.19	92.6	83.5	88.1	12.8	80	86	101	122	146	205	261	328	352	391	.8	2.7
5 543	5	60.6	.041	2	.005	.03	91.9	82.2	87.1	11.9	86	96	108	127	151	208	274	354	385	426	.9	1.9
5 544	6	60.7	.035	0	.003	.47	94.4	87.0	90.7	12.4	83	97	108	131	158	207	255	314	353	401	.9	1.5
5 545	4	60.0	.014	2	.092	.05	92.9	83.9	88.4	13.1	81	89	103	126	151	210	262	325	350	379	.9	2.0
5 546	2	63.7	.037	3	.010	1.68	92.7	85.9	89.3	15.8	76	81	92	113	137	192	262	353	384	427	1.0	3.3
5 547	5	61.3	.033	2	.021	.03	91.8	82.5	87.2	11.1	85	98	114	138	163	211	251	313	340	392	.8	1.1
5 548	3	59.7	-	-	-	-	92.6	82.0	87.3	10.8	84	100	114	140	168	222	270	343	377	420	.7	1.3
6 549	4	63.2	.056	2	.005	.09	92.0	82.9	87.5	11.6	87	102	113	133	154	204	246	313	341	386	1.0	1.5
6 550	4	59.6	.049	1	.003	.02	92.7	82.7	87.7	10.7	86	103	116	141	172	226	270	342	375	420	1.2	1.4
6 551	4	61.4	.023	1	.005	.06	91.6	84.0	87.8	11.0	91	105	117	138	165	212	255	326	359	409	1.0	2.0
6 552	1	65.2	.034	2	.003	.36	97.1	87.7	92.4	13.1	90	99	107	120	140	190	239	307	340	392	1.0	2.0
6 553	6	66.5	.012	1	.003	.40	94.1	90.0	92.1	12.5	87	96	109	140	175	210	240	312	346	392	1.0	3.2
6 554	3	60.3	.002	-	-	.50	93.5	86.8	90.2	8.9	94	113	125	148	168	203	230	275	305	364	.9	1.1
7 555	3	61.5	.011	-	-	2.27	93.7	86.9	90.3	11.7	82	97	107	127	153	203	258	350	394	440	1.2	1.3
7 556	8	62.8	.055	-	-	.50	91.6	84.2	87.9	12.2	82	95	104	122	144	195	253	330	368	409	.8	1.0
7 557	9	60.1	.013	2	.014	.07	92.1	83.9	88.0	10.3	86	105	118	141	166	215	259	324	361	405	.9	1.6
7 558	1	64.5	.006	2	.002	.42	97.0	87.9	92.5	13.0	77	90	101	118	140	196	248	312	350	396	1.0	2.0
7 559	2	58.4	.010	-	-	.44	94.5	87.1	90.8	10.8	82	93	105	130	163	230	279	319	337	402	.6	1.4
7 560	3	60.6	.017	-	-	.07	92.0	82.4	87.2	8.6	87	117	130	149	168	204	247	315	360	418	.9	1.1
7 561	1	55.6	.004	2	.002	.42	94.2	85.5	89.9	9.7	94	112	129	159	191	238	276	322	342	384	1.0	2.0

TABLE 5. - MOTOR GASOLINE SURVEY, WINTER 1972-73
DATA FOR SOME ADDITIONAL GRADES--CONTINUED

THIRD-GRADE GASOLINE--CONTINUED

DISTRICT AND ITEM NUMBERS	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS. G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
7 562	7	63.9	.033	3	.006	.01	91.7	82.5	87.1	11.2	85	101	113	134	157	203	244	314	347	387	.9	1.1
8 563	10	60.6	.018	-	-	.38	91.4	84.4	87.9	12.0	78	98	103	124	153	204	254	325	349	396	.9	1.5
8 564	2	62.2	-	-	-	.48	96.3	87.1	91.7	11.2	77	-	105	127	-	205	-	328	-	391	1.0	1.5
8 565	2	61.0	-	-	-	.37	94.1	86.5	90.3	9.9	83	-	117	135	-	201	-	323	-	404	1.0	2.0
8 566	8	58.4	.015	-	-	.43	93.6	85.4	89.5	10.2	87	104	121	146	174	217	261	306	333	376	.7	1.6
8 567	7	59.6	.021	-	-	.00	93.3	83.6	88.5	9.8	90	104	119	140	161	206	256	324	351	395	.8	1.4
8 568	5	63.0	.019	-	-	2.14	94.0	86.7	90.4	12.7	83	96	105	124	146	196	252	334	365	409	.8	.8
9 569	3	68.6	.021	-	-	-	91.1	82.2	86.7	11.5	84	99	111	130	150	194	226	288	323	380	1.0	1.0
9 570	3	64.6	.042	-	-	1.89	92.4	85.2	88.8	12.1	80	93	106	122	142	189	245	328	357	404	1.0	1.0
10 571	6	60.9	.043	-	-	-	91.3	82.5	86.9	10.0	90	104	117	140	164	208	242	292	310	367	.8	2.0
10 572	9	65.0	.030	-	-	1.52	92.3	85.3	88.8	11.8	85	97	107	124	142	187	232	318	354	406	.8	.9
10 573	3	70.0	.010	0	-	.37	92.9	90.2	91.6	13.9	81	92	106	130	165	210	234	297	319	380	.8	2.3
11 574	3	62.3	.079	-	-	.44	91.0	83.4	87.2	10.4	90	107	115	134	155	201	253	330	361	411	1.0	1.0
11 575	4	60.1	.026	1	-	.33	94.3	87.2	90.8	10.7	92	96	115	132	160	213	265	316	345	393	1.0	1.5
11 576	6	61.3	.015	-	-	.43	93.4	85.9	89.7	9.8	89	106	119	145	170	216	251	300	323	371	.8	1.5
11 577	5	62.6	.002	-	-	1.96	92.6	85.8	89.2	11.9	83	97	108	131	151	197	254	336	359	398	1.2	1.3
12 578	3	59.3	.010	1	.028	.05	91.6	84.4	88.0	8.0	98	115	127	144	161	210	261	324	353	402	.8	.8
12 579	6	62.9	.024	-	-	2.15	93.9	86.9	90.4	11.6	87	100	111	130	148	190	247	331	359	394	1.1	1.5
12 580	3	65.3	.070	0	.028	.43	94.0	86.4	90.2	10.7	89	91	117	134	146	198	252	301	368	394	1.0	2.0
12 581	9	60.2	.040	0	.028	.83	92.0	84.5	88.3	10.7	90	100	114	135	157	208	259	337	364	414	.9	2.1
12 582	3	65.0	.004	0	.428	.44	95.6	88.0	91.8	11.1	86	88	108	127	140	198	236	289	342	379	1.0	2.0
12 583	4	58.2	.004	-	-	.34	95.1	88.0	91.6	9.0	94	109	125	151	179	223	262	326	350	406	1.0	1.0
12 584	6	61.6	.070	1	.028	.54	93.3	85.3	89.3	9.3	94	100	120	141	156	208	251	325	339	407	.9	1.6
13 585	3	58.2	-	-	-	-	91.8	83.6	87.7	9.5	90	101	112	132	153	202	236	299	373	383	.8	3.2
13 586	10	63.5	-	-	-	1.63	91.9	85.0	88.5	12.2	86	99	111	130	153	199	252	334	384	419	.8	1.8

TABLE 5. - MOTOR GASOLINE SURVEY, WINTER 1972-73
DATA FOR SOME ADDITIONAL GRADES--CONTINUED

THIRD-GRADE GASOLINE--CONTINUED

DISTRICT AND ITEM NUMBERS	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS. G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES LOSS %	%
13 587	7	61.4	-	-	-	1.58	92.9	85.2	89.1	11.9	86	96	107	130	156	206	262	343	366	415	.9	3.4
13 588	1	63.2	-	-	-	.42	96.1	86.9	91.5	11.3	90	-	118	136	-	192	-	306	-	392	-	-
13 589	3	54.5	-	-	-	.39	93.9	84.2	89.1	10.3	87	102	115	142	169	230	286	352	378	431	.8	3.2
13 590	11	57.6	.060	1	.001	.03	91.1	82.8	87.0	7.5	99	121	135	159	183	221	270	336	372	412	.9	1.6
13 591	6	63.8	-	-	-	.45	92.4	85.8	89.1	8.8	96	116	129	150	172	214	251	317	350	407	.7	1.3
13 592	6	61.9	-	-	-	-	90.2	81.8	86.0	11.1	87	101	114	136	159	203	248	326	370	405	.9	2.7
14 593	4	60.1	.012	1	.000	.04	91.4	83.2	87.3	7.8	100	120	135	159	180	218	264	319	351	397	.9	1.1
14 594	6	63.3	.059	-	-	1.54	92.8	85.4	89.1	12.2	85	94	104	124	146	194	248	324	363	414	1.0	3.1
14 595	3	69.0	-	-	-	-	91.2	82.6	86.9	11.8	88	101	120	136	155	193	227	286	329	376	2.0	1.0
15 596	4	68.4	.007	1	.000	3.39	91.1	87.8	89.5	12.5	83	95	103	119	136	178	228	290	315	349	.8	2.2
15 597	2	-	-	-	-	.32	96.1	87.0	91.6	12.7	85	-	110	129	-	195	230	290	-	370	-	-
15 598	4	65.7	.014	1	-	.49	94.1	87.8	91.0	12.8	83	95	103	128	149	196	238	310	340	381	.9	2.4
15 599	4	58.9	.015	1	.001	.02	91.8	82.9	87.4	7.6	97	119	130	150	169	210	250	320	354	415	.9	1.1
15 600	3	56.9	.017	-	-	-	91.8	83.4	87.6	9.4	92	107	118	139	166	227	277	331	352	396	.8	1.2
16 601	4	57.2	.010	1	.025	.02	92.7	83.6	88.2	7.9	96	110	122	142	164	218	269	324	343	392	1.0	1.1
16 602	5	59.5	.051	1	.003	1.18	91.4	85.1	88.3	10.1	86	101	115	139	164	212	264	331	357	398	.9	2.3
16 603	3	60.5	-	-	-	.46	94.7	87.1	90.9	10.3	86	103	117	134	155	200	246	319	346	406	.4	1.1
16 604	5	59.5	.010	1	.004	.03	91.8	83.0	87.4	8.3	99	117	128	145	162	202	245	315	352	405	.9	1.1
16 605	2	56.6	-	-	-	.49	95.3	84.8	90.1	10.2	88	102	114	136	165	217	273	336	358	380	.5	1.5
17 606	1	63.2	-	-	-	.49	95.7	86.4	91.1	10.7	88	-	114	132	-	191	-	295	-	372	-	-
17 607	5	56.3	.090	0	-	.45	94.3	84.7	89.5	10.6	89	107	115	137	164	218	286	354	381	423	.9	1.1
17 608	7	58.0	.037	3	.014	.03	91.7	83.0	87.4	7.8	100	118	131	149	167	211	262	318	343	392	1.2	1.0
17 609	6	53.9	.011	2	.014	.01	91.7	82.8	87.3	8.2	93	119	134	160	185	230	273	329	349	387	1.0	1.4
17 610	6	58.3	.020	1	.027	.01	92.2	84.1	88.2	8.9	96	114	127	146	166	219	272	324	347	393	1.2	.9
17 611	5	61.6	.092	1	.015	.71	91.2	83.5	87.4	10.9	93	104	119	138	157	202	262	346	380	423	1.1	1.7
AVERAGE		61.2	.027	1	.021	.51	93.1	85.0	89.1	11.0	87	101	113	135	159	207	256	321	354	398	.9	1.8
SAMPLES	520																					

TABLE 5. - MOTOR GASOLINE SURVEY, WINTER 1972-73
DATA FOR SOME ADDITIONAL GRADES--CONTINUED

INTERMEDIATE-GRADE GASOLINE

DISTRICT AND ITEM NUMBERS	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS, G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
1 612	3	65.4	0.028	-	-	0.38	95.8	87.7	91.8	13.8	78	86	94	110	129	184	236	298	321	350	0.8	2.2
1 613	3	63.6	.020	-	-	.36	96.2	87.7	92.0	12.1	80	91	100	115	137	188	233	294	329	371	1.0	1.5
2 614	12	63.1	.021	2	0.000	.46	96.2	87.2	91.7	13.9	79	88	98	116	137	192	250	318	342	383	.9	2.4
2 615	9	63.9	.037	1	.000	.41	96.4	87.3	91.9	12.6	79	91	100	117	137	187	234	286	324	375	.7	2.1
2 616	1	64.4	.023	1	.006	1.29	92.5	86.1	89.3	14.5	74	82	92	111	134	193	269	343	371	398	1.5	3.5
3 617	3	62.2	-	-	-	2.24	96.2	88.8	92.5	11.9	82	97	109	129	152	200	253	336	370	415	.5	.5
3 618	9	61.2	.011	-	-	.46	96.2	87.5	91.9	11.6	84	96	106	127	150	207	253	308	330	371	.8	.7
3 619	9	61.9	.015	-	-	.40	96.5	87.2	91.9	11.9	84	96	110	125	145	197	246	307	333	386	.6	.9
4 620	9	62.0	.026	2	.014	.47	96.3	87.4	91.9	13.9	82	90	100	118	140	199	258	319	343	387	1.0	1.8
4 621	10	64.2	.031	1	.010	.41	96.4	87.6	92.0	12.8	83	93	103	121	142	193	237	302	336	394	.9	1.3
5 622	4	65.1	.020	2	.005	.37	96.2	87.5	91.9	13.5	82	91	101	119	141	192	235	301	336	385	.7	1.6
6 623	3	65.0	.015	-	-	.41	96.1	87.3	91.7	13.3	81	95	103	121	139	186	230	301	326	380	1.3	1.7
7 624	2	60.8	.020	-	-	.46	96.5	87.6	92.1	14.0	82	92	100	116	137	200	266	323	360	388	.8	2.2
7 625	9	64.5	.020	-	-	.43	96.4	87.5	92.0	13.0	83	93	103	121	143	192	244	302	341	392	1.0	1.3
8 626	8	61.9	.013	-	-	.47	95.9	87.1	91.5	12.9	81	92	102	123	144	204	253	304	333	368	.9	1.4
8 627	9	62.6	.013	-	-	.47	96.4	87.1	91.8	12.4	81	95	105	124	146	199	246	302	340	384	.7	1.0
9 628	3	64.0	.052	-	-	.39	96.0	87.2	91.6	12.6	85	100	110	126	144	191	243	310	346	396	1.0	1.0
10 629	3	64.1	-	-	-	.42	96.2	87.7	92.0	12.2	82	96	106	124	144	192	237	296	329	383	.5	.5

TABLE 5. - MOTOR GASOLINE SURVEY, WINTER 1972-73
DATA FOR SOME ADDITIONAL GRADES--CONTINUED

INTERMEDIATE-GRADE GASOLINE--CONTINUED

DISTRICT AND ITEM NUMBERS	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS. G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	5	10	20	30	50	70	90	95	EP	RES %	LOSS %
11 630	3	61.4	.060	-	-	.38	95.6	86.7	91.2	11.4	88	100	112	134	162	213	262	325	346	392	.8	1.7
11 631	3	61.9	.049	-	-	.35	96.0	87.0	91.5	11.1	87	99	109	128	147	199	234	283	322	368	.8	1.2
12 632	6	61.1	.028	-	-	.50	95.8	87.0	91.4	11.8	88	99	107	125	146	200	263	313	330	362	.6	1.0
12 633	3	62.1	-	-	-	.35	95.9	87.3	91.6	11.9	84	95	105	121	141	193	233	285	320	372	.5	1.0
13 634	3	67.0	-	-	-	2.84	93.9	89.3	91.6	11.5	88	102	110	126	146	194	239	320	365	412	1.0	1.0
13 635	1	59.7	.040	1	.001	1.61	96.9	88.7	92.8	11.7	88	103	118	146	170	214	259	328	356	410	1.0	3.0
13 636	4	65.7	-	-	-	.53	95.8	87.9	91.9	10.0	95	113	128	148	171	221	268	325	351	398	.7	1.8
14 637	9	66.8	.017	0	-	.43	96.1	87.0	91.6	11.1	83	101	112	132	153	195	229	291	333	378	.9	1.6
15 638	5	67.9	.026	1	.003	.36	95.9	87.4	91.7	12.5	81	95	105	124	145	193	233	295	331	385	1.0	2.9
15 639	1	65.7	.040	1	-	1.07	95.5	90.0	92.8	11.6	84	96	109	127	149	195	237	306	329	375	1.0	3.0
15 640	1	62.4	.020	1	-	.53	93.3	86.5	89.9	10.5	87	103	115	139	166	220	261	321	343	388	1.0	2.0
16 641	5	61.9	.031	1	.001	.40	96.4	88.0	92.2	10.1	90	108	123	148	172	211	246	316	350	399	1.0	1.5
16 642	5	64.4	.012	1	.000	.39	96.3	86.9	91.6	11.6	87	102	113	132	149	189	225	289	325	377	.8	1.8
16 643	1	56.5	.003	-	.000	.55	95.3	86.3	90.8	9.0	98	116	130	149	170	216	259	319	345	398	1.1	.9
16 644	1	55.2	.047	-	.000	.48	95.7	84.7	90.2	9.2	100	114	130	153	176	228	285	336	360	401	1.1	.9
17 645	4	58.9	.058	-	.027	2.11	96.2	87.4	91.8	11.1	86	98	110	135	160	215	270	339	367	412	1.1	1.9
17 646	5	61.2	.036	4	.014	.47	96.0	86.4	91.2	11.1	88	102	115	134	154	195	237	303	332	381	1.0	1.9
17 647	1	54.4	.045	-	.027	.46	95.0	84.8	89.9	9.6	90	101	114	140	167	222	279	351	382	430	1.0	1.5
AVERAGE		62.6	.028	1	.007	.67	95.8	87.3	91.6	11.9	85	98	109	128	150	200	248	311	342	387	.9	1.6
SAMPLES	170																					

TABLE 5. - MOTOR GASOLINE SURVEY, WINTER 1972-73
DATA FOR SOME ADDITIONAL GRADES--CONTINUED

SUPER-PREMIUM GASOLINE

DISTRICT AND ITEM NUMBERS	SAMPLES	GR., ASTM D287 API	SULF., ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS., G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
1 648	1	62.9	0.008	1	-	3.30	102.5	94.0	98.3	14.3	77	77	95	116	143	208	258	336	365	412	1.0	5.0
2 649	2	62.4	.032	1	0.008	3.18	102.3	94.0	98.2	13.2	74	82	97	120	145	211	259	330	360	418	1.3	4.0
3 650	1	58.4	.010	1	-	2.73	102.7	94.9	98.8	9.0	88	102	120	143	167	211	240	304	346	408	1.0	2.0
4 651	2	61.3	.001	0	.055	2.08	102.4	94.2	98.3	13.6	82	91	101	123	149	210	246	295	313	362	1.0	4.0
5 652	2	62.2	.001	1	.046	2.01	102.2	93.7	98.0	14.7	80	85	96	118	145	208	246	302	328	374	.8	4.5
11 653	1	72.4	.003	0	-	2.80	100.3	97.8	99.1	13.4	76	84	100	128	156	198	223	293	336	402	1.2	3.3
AVERAGE		63.3	.009	1	.036	2.68	102.1	94.8	98.5	13.0	80	87	102	125	151	208	245	310	341	394	1.1	3.8
SAMPLES	9																					

TABLE 6. - MOTOR GASOLINE SURVEY, WINTER 1972-73
ANALYSES OF LOW-LEAD CONTENT GASOLINE

DISTRICT	GRADE	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS. G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
1	PREMIUM	1	54.3	-	-	-	0.14	100.5	90.0	95.3	-	-	-	-	-	-	-	-	-	-	-	-	-
1	INTERMEDIATE	3	65.4	0.028	-	-	.38	95.8	87.7	91.8	13.8	78	86	94	110	129	184	236	298	321	350	0.8	2.2
1	INTERMEDIATE	3	63.6	.020	-	-	.36	96.2	87.7	92.0	12.1	80	91	100	115	137	188	233	294	329	371	1.0	1.5
1	REGULAR	1	65.5	.015	2	-	.44	95.5	86.9	91.2	14.6	69	69	88	106	125	181	239	296	314	368	1.0	5.0
1	THIRD GRADE	1	63.6	-	-	-	.43	93.9	86.8	90.4	15.4	69	-	89	112	-	197	-	335	-	400	1.0	4.0
1	THIRD GRADE	4	61.4	.028	2	-	.34	91.2	82.9	87.1	12.5	75	85	101	124	149	207	269	341	370	411	1.0	2.8
1	THIRD GRADE	3	59.4	.018	-	-	.27	94.2	86.9	90.6	13.1	76	88	97	120	141	216	249	303	326	398	1.0	3.1
1	THIRD GRADE	1	60.0	-	-	-	.39	94.0	86.7	90.4	9.3	85	-	124	146	-	217	-	309	-	383	1.0	1.5
2	PREMIUM	2	57.5	.050	0	0.000	.11	100.7	90.1	95.4	12.4	79	93	104	128	161	219	242	302	334	389	1.0	2.1
2	INTERMEDIATE	10	62.9	.019	-	-	.45	96.2	87.3	91.8	14.1	80	89	98	116	138	192	249	318	342	380	.8	2.2
2	INTERMEDIATE	9	63.9	.037	1	.000	.41	96.4	87.3	91.9	12.6	79	91	100	117	137	187	234	286	324	375	.7	2.1
2	REGULAR	1	62.8	.009	1	-	.32	96.0	86.9	91.5	14.2	77	80	96	120	140	203	249	318	340	396	1.0	4.0
2	REGULAR	1	60.3	.017	1	-	.28	90.7	82.8	86.8	11.4	83	91	109	131	158	212	277	347	376	416	1.0	3.0
2	REGULAR	1	63.2	.011	2	-	.32	96.5	87.2	91.9	11.5	82	94	108	128	151	198	228	276	324	376	1.0	2.0
2	REGULAR	2	60.9	.043	0	.000	.47	95.9	86.0	91.0	13.6	86	95	107	129	153	203	254	310	339	380	1.1	3.0
2	THIRD GRADE	1	59.1	.021	1	.000	.30	94.5	84.0	89.3	10.7	96	108	120	142	168	220	272	337	363	400	1.5	2.5
2	THIRD GRADE	1	61.5	.010	1	.003	.35	95.0	86.7	90.9	14.6	84	-	97	116	141	199	252	315	-	374	1.0	5.0
2	THIRD GRADE	16	59.9	.032	1	.002	.36	91.7	83.6	87.7	11.8	81	95	106	129	155	213	279	347	376	416	1.0	2.4
2	THIRD GRADE	1	63.8	.006	0	.000	.23	96.2	87.0	91.6	11.0	85	100	114	130	150	198	234	287	372	378	1.0	2.0
2	THIRD GRADE	13	60.7	.028	1	.003	.36	94.5	86.8	90.7	12.4	85	101	111	129	149	196	248	307	336	393	.9	1.5
2	THIRD GRADE	8	60.5	.024	1	.001	.42	93.9	85.8	89.9	11.6	86	98	115	143	171	222	262	315	341	384	.9	2.7

TABLE 6. - MOTOR GASOLINE SURVEY, WINTER 1972-73
ANALYSES OF LOW-LEAD CONTENT GASOLINE--CONTINUED

DISTRICT	GRADE	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS. G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
3	INTERMEDIATE	9	61.2	.011	-	-	.46	96.2	87.5	91.9	11.6	84	96	106	127	150	207	253	308	330	371	.8	.7
3	INTERMEDIATE	9	61.9	.015	-	-	.40	96.5	87.2	91.9	11.9	84	96	110	125	145	197	246	307	333	386	.6	.9
3	REGULAR	1	62.4	.050	1	-	.26	90.5	83.2	86.9	10.9	93	101	111	131	153	198	250	325	363	412	1.0	1.0
3	THIRD GRADE	9	62.3	.074	-	-	.42	91.2	83.6	87.4	11.0	86	99	112	131	149	198	252	329	354	406	.8	.7
3	THIRD GRADE	2	63.6	-	-	-	.38	96.5	87.4	92.0	11.1	87	-	111	130	-	193	-	281	-	375	1.0	2.8
3	THIRD GRADE	1	59.2	-	-	-	.36	94.2	87.1	90.7	10.1	88	105	118	142	164	222	270	320	347	398	1.0	1.0
3	THIRD GRADE	6	60.7	-	-	-	.11	92.1	83.0	87.6	8.9	97	116	126	144	160	196	239	324	362	416	.8	.5
3	THIRD GRADE	3	61.0	-	-	-	.48	93.9	85.6	89.8	12.7	86	97	108	132	161	227	277	319	338	382	.5	1.5
4	PREMIUM	1	57.7	-	-	-	.08	99.9	90.4	95.2	-	-	-	-	-	-	-	-	-	-	-	-	-
4	INTERMEDIATE	8	61.9	.031	2	.014	.46	96.3	87.4	91.9	13.9	82	90	100	118	140	199	258	319	343	387	1.0	1.8
4	INTERMEDIATE	9	64.2	.031	1	.010	.39	96.4	87.6	92.0	13.1	82	92	102	120	141	191	237	305	338	394	.9	1.4
4	THIRD GRADE	1	58.3	.064	0	.014	.09	91.7	84.7	88.2	11.1	88	102	116	139	164	225	286	341	364	426	1.3	1.2
4	THIRD GRADE	12	61.6	.023	1	.009	.37	91.5	83.9	87.7	13.0	82	92	104	127	153	207	261	335	369	406	1.1	1.6
4	THIRD GRADE	2	59.3	-	-	-	.11	92.9	83.5	88.2	-	-	-	-	-	-	-	-	-	-	-	-	-
4	THIRD GRADE	12	59.4	.021	1	.008	.39	94.5	86.9	90.7	12.4	83	94	107	128	153	205	259	313	344	391	1.0	1.6
4	THIRD GRADE	1	61.0	.017	2	.007	.14	91.8	83.4	87.6	8.5	92	115	130	149	166	196	236	314	356	414	1.0	.5
4	THIRD GRADE	1	59.9	-	-	-	.40	93.7	82.9	88.3	-	86	106	118	147	176	231	279	340	367	392	1.0	2.5
4	THIRD GRADE	3	61.4	.016	-	-	.22	93.8	86.1	90.0	11.7	88	106	121	148	179	223	265	319	346	408	.7	1.3
4	THIRD GRADE	5	58.2	.014	2	.005	.42	93.6	84.6	89.1	10.1	87	106	122	153	185	233	269	317	345	393	.8	1.0

TABLE 6. - MOTOR GASOLINE SURVEY, WINTER 1972-73
ANALYSES OF LOW-LEAD CONTENT GASOLINE--CONTINUED

DISTRICT	GRADE	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS. G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
5	INTERMEDIATE	4	65.1	.020	2	.005	.37	96.2	87.5	91.9	13.5	82	91	101	119	141	192	235	301	336	385	.7	1.6
5	THIRD GRADE	6	63.5	.018	1	.007	.33	91.2	84.3	87.8	13.7	78	88	101	124	151	204	247	315	350	396	.9	2.5
5	THIRD GRADE	4	61.4	.022	1	.029	.19	92.6	83.5	88.1	12.8	80	86	101	122	146	205	261	328	352	391	.8	2.7
5	THIRD GRADE	5	60.5	.043	1	.002	.45	94.3	87.0	90.7	12.4	84	98	108	131	156	205	254	314	352	396	1.0	1.5
6	INTERMEDIATE	3	65.0	.015	-	-	.41	96.1	87.3	91.7	13.3	81	95	103	121	139	186	230	301	326	380	1.3	1.7
6	THIRD GRADE	1	65.2	-	-	-	.16	92.3	83.0	87.7	-	-	-	-	-	-	-	-	-	-	-	-	-
6	THIRD GRADE	1	60.4	.025	-	-	.08	92.0	83.8	87.9	-	-	-	-	-	-	-	-	-	-	-	-	-
6	THIRD GRADE	1	65.2	.034	2	.003	.36	97.1	87.7	92.4	13.1	90	99	107	120	140	190	239	307	340	392	1.0	2.0
6	THIRD GRADE	6	66.5	.012	1	.003	.40	94.1	90.0	92.1	12.5	87	96	109	140	175	210	240	312	346	392	1.0	3.2
6	THIRD GRADE	2	60.0	.002	-	-	.47	93.6	86.7	90.2	-	-	-	-	-	-	-	-	-	-	-	-	-
7	INTERMEDIATE	2	60.8	.020	-	-	.46	96.5	87.6	92.1	14.0	82	92	100	116	137	200	266	323	360	388	.8	2.2
7	INTERMEDIATE	8	64.5	.021	-	-	.41	96.5	87.5	92.0	13.0	83	93	103	121	143	192	244	302	341	392	1.0	1.3
7	THIRD GRADE	3	62.6	-	-	-	.44	91.6	83.9	87.8	12.7	80	93	102	120	141	192	252	327	370	406	.6	1.8
7	THIRD GRADE	3	59.2	.015	1	.002	.11	92.1	84.1	88.1	10.3	85	103	118	141	167	217	262	327	359	407	.8	1.3
7	THIRD GRADE	1	64.5	.006	2	.002	.42	97.0	87.9	92.5	13.0	77	90	101	118	140	196	248	312	350	396	1.0	2.0
7	THIRD GRADE	2	58.4	.010	-	-	.44	94.5	87.1	90.8	10.8	82	93	105	130	163	230	279	319	337	402	.6	1.4
7	THIRD GRADE	1	55.6	.004	2	.002	.42	94.2	85.5	89.9	9.7	94	112	129	159	191	238	276	322	342	384	1.0	2.0
8	INTERMEDIATE	7	62.0	.013	-	-	.47	95.9	87.1	91.5	12.9	81	92	102	123	144	204	253	304	333	368	.9	1.4
8	INTERMEDIATE	6	62.6	.013	-	-	.43	96.5	87.1	91.8	12.6	81	94	104	124	147	201	252	315	349	393	.7	1.1
8	THIRD GRADE	9	60.2	.018	-	-	.36	91.4	84.4	87.9	11.9	77	99	102	124	156	205	256	325	343	393	.8	1.4
8	THIRD GRADE	2	62.2	-	-	-	.48	96.3	87.1	91.7	11.2	77	-	105	127	-	205	-	328	-	391	1.0	1.5
8	THIRD GRADE	1	61.1	-	-	-	.18	92.2	84.0	88.1	9.4	84	-	118	134	-	188	-	328	-	417	1.0	1.0
8	THIRD GRADE	5	58.3	.015	-	-	.46	93.6	85.4	89.5	10.8	81	102	117	145	180	217	272	311	338	379	.8	1.7

TABLE 6. - MOTOR GASOLINE SURVEY, WINTER 1972-73
ANALYSES OF LOW-LEAD CONTENT GASOLINE--CONTINUED

DISTRICT	GRADE	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS. G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
9	INTERMEDIATE	3	64.0	.052	-	-	.39	96.0	87.2	91.6	12.6	85	100	110	126	144	191	243	310	346	396	1.0	1.0
10	THIRD GRADE	3	70.0	.010	0	-	.37	92.9	90.2	91.6	13.9	81	92	106	130	165	210	234	297	319	380	.8	2.3
10	INTERMEDIATE	3	64.1	-	-	-	.42	96.2	87.7	92.0	12.2	82	96	106	124	144	192	237	296	329	383	.5	.5
11	INTERMEDIATE	3	61.4	.060	-	-	.38	95.6	86.7	91.2	11.4	88	100	112	134	162	213	262	325	346	392	.8	1.7
11	INTERMEDIATE	3	61.9	.049	-	-	.35	96.0	87.0	91.5	11.1	87	99	109	128	147	199	234	283	322	368	.8	1.2
11	THIRD GRADE	3	62.3	.079	-	-	.44	91.0	83.4	87.2	10.4	90	107	115	134	155	201	253	330	361	411	1.0	1.0
11	THIRD GRADE	4	60.1	.026	1	-	.33	94.3	87.2	90.8	10.7	92	96	115	132	160	213	265	316	345	393	1.0	1.5
11	THIRD GRADE	6	61.3	.015	-	-	.43	93.4	85.9	89.7	9.8	89	106	119	145	170	216	251	300	323	371	.8	1.5
12	INTERMEDIATE	5	61.2	.028	-	-	.42	95.8	87.0	91.4	11.8	88	99	107	125	146	200	263	313	330	362	.6	1.0
12	INTERMEDIATE	3	62.1	-	-	-	.35	95.9	87.3	91.6	11.9	84	95	105	121	141	193	233	285	320	372	.5	1.0
12	THIRD GRADE	3	65.3	.070	0	.028	.43	94.0	86.4	90.2	10.7	89	91	117	134	146	198	252	301	368	394	1.0	2.0
12	THIRD GRADE	7	59.5	.040	0	.028	.37	92.0	84.3	88.2	10.8	88	100	112	132	157	207	259	325	364	406	.9	2.1
12	THIRD GRADE	3	65.0	.004	0	.028	.44	95.6	88.0	91.8	11.1	86	88	108	127	140	198	236	289	342	379	1.0	2.0
12	THIRD GRADE	4	58.2	.004	-	-	.34	95.1	88.0	91.6	9.0	94	109	125	151	179	223	262	326	350	406	1.0	1.0
12	THIRD GRADE	4	61.4	-	-	-	.46	93.9	85.8	89.9	9.7	94	102	121	144	162	210	248	322	320	402	.8	1.2
13	INTERMEDIATE	2	65.0	-	-	-	.45	96.1	88.4	92.3	10.0	95	113	128	148	171	221	268	325	351	398	.7	1.8
13	REGULAR	2	57.3	.003	-	.027	.38	94.3	85.0	89.7	12.7	87	99	118	144	180	216	278	322	351	394	1.1	1.7
13	REGULAR	2	60.4	.030	-	.027	.49	94.2	85.6	89.9	11.8	90	106	114	130	149	196	251	331	360	411	1.2	1.3
13	THIRD GRADE	1	63.2	-	-	-	.42	96.1	86.9	91.5	11.3	90	-	118	136	-	192	-	306	-	392	-	-
13	THIRD GRADE	3	54.5	-	-	-	.39	93.9	84.2	89.1	10.3	87	102	115	142	169	230	286	352	378	431	.8	3.2
13	THIRD GRADE	4	62.9	-	-	-	.42	92.3	85.4	88.9	9.1	94	113	125	147	171	217	257	329	362	409	.5	1.5

TABLE 6. - MOTOR GASOLINE SURVEY, WINTER 1972-73
ANALYSES OF LOW-LEAD CONTENT GASOLINE--CONTINUED

DISTRICT	GRADE	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS., G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
14	INTERMEDIATE	7	66.8	.017	0	-	.39	96.1	86.9	91.5	11.3	82	99	110	129	151	193	227	288	325	371	.9	1.5
15	INTERMEDIATE	5	67.9	.026	1	.003	.36	95.9	87.4	91.7	12.5	81	95	105	124	145	193	233	295	331	385	1.0	2.9
15	REGULAR	1	62.9	.010	1	.000	.43	92.7	85.5	89.1	10.3	80	100	114	134	155	206	256	318	344	390	1.0	4.0
15	THIRD GRADE	2	-	-	-	-	.32	96.1	87.0	91.6	12.7	85	-	110	129	-	195	230	290	-	370	-	-
15	THIRD GRADE	1	66.1	.020	1	-	.33	93.2	87.2	90.2	13.4	81	-	99	130	151	197	-	310	-	381	1.0	1.5
16	INTERMEDIATE	4	62.6	.020	1	.002	.37	96.3	88.4	92.4	10.5	86	105	120	146	171	209	242	312	349	398	.8	2.0
16	INTERMEDIATE	5	64.4	.012	1	.000	.39	96.3	86.9	91.6	11.6	87	102	113	132	149	189	225	289	325	377	.8	1.8
16	INTERMEDIATE	1	55.2	.047	-	.000	.48	95.7	84.7	90.2	9.2	100	114	130	153	176	228	285	336	360	401	1.1	.9
16	REGULAR	5	63.2	.011	1	.001	.43	94.5	86.3	90.4	10.5	89	104	114	130	146	187	233	319	359	410	.9	1.3
16	REGULAR	5	58.9	.006	2	.001	.41	93.9	86.4	90.2	11.1	84	96	107	129	152	210	277	333	363	416	1.0	2.4
16	THIRD GRADE	3	60.5	-	-	-	.46	94.7	87.1	90.9	10.3	86	103	117	134	155	200	246	319	346	406	.4	1.1
16	THIRD GRADE	1	56.0	-	-	-	.47	95.4	84.5	90.0	-	-	-	-	-	-	-	-	-	-	-	-	-
17	INTERMEDIATE	4	60.3	.036	4	.014	.46	96.1	86.3	91.2	11.0	89	102	116	137	158	202	246	317	348	392	1.0	2.0
17	INTERMEDIATE	1	54.4	.045	-	.027	.46	95.0	84.8	89.9	9.6	90	101	114	140	167	222	279	351	382	430	1.0	1.5
17	REGULAR	1	61.2	.110	1	.002	.30	95.0	88.3	91.7	11.0	90	100	112	131	152	203	261	344	382	426	1.0	3.0
17	REGULAR	6	61.0	.031	0	.014	.45	94.8	85.2	90.0	11.6	88	100	111	128	147	193	251	311	341	390	1.1	1.7
17	REGULAR	3	54.7	.040	1	.001	.49	95.1	85.1	90.1	11.6	89	94	107	133	166	235	297	349	365	402	1.0	4.0
17	REGULAR	3	58.7	-	-	-	.43	93.9	85.0	89.5	12.2	86	97	108	128	149	209	291	361	392	430	.9	4.1
17	THIRD GRADE	3	62.0	-	-	-	.45	91.2	83.3	87.3	11.0	90	104	117	135	156	206	261	343	383	432	.9	1.6
17	THIRD GRADE	1	63.2	-	-	-	.49	95.7	86.4	91.1	10.7	88	-	114	132	-	191	-	295	-	372	-	-
17	THIRD GRADE	4	56.1	.090	0	-	.43	94.3	84.7	89.5	10.6	89	107	115	137	164	218	286	354	381	423	.9	1.1

TABLE 7. - MOTOR GASOLINE SURVEY, WINTER 1972-73
ANALYSES OF UNLEADED GASOLINE

DISTRICT	GRADE	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS, G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
1	PREMIUM	3	53.8	.008	1	-	.00	100.2	89.9	95.1	13.3	82	88	100	122	152	221	258	312	342	376	.9	2.9
1	THIRD GRADE	1	61.2	.032	-	-	*	92.2	82.4	87.3	11.3	84	99	114	135	155	196	241	300	330	376	.9	1.6
1	THIRD GRADE	3	59.9	.011	1	-	.00	91.4	83.4	87.4	11.1	82	94	110	131	150	207	271	340	369	419	1.1	2.0
2	PREMIUM	13	56.0	.007	1	.000	.01	100.4	90.2	95.3	11.8	83	94	107	131	160	221	250	300	335	376	1.0	2.2
2	REGULAR	1	60.9	.020	0	.006	.07	93.8	85.0	89.4	12.5	82	91	102	122	147	209	246	356	386	422	1.0	3.0
2	THIRD GRADE	11	59.4	.029	1	.000	.03	93.3	82.7	88.0	10.4	85	102	116	139	165	215	267	336	371	411	.7	1.6
2	THIRD GRADE	10	58.5	.010	1	.002	.01	91.3	84.0	87.7	10.7	85	103	117	141	167	224	280	339	368	421	1.1	1.8
3	PREMIUM	10	54.2	.005	-	-	.00	100.8	90.7	95.8	11.6	82	94	111	141	181	228	252	305	333	375	.9	1.8
3	THIRD GRADE	9	60.9	.028	-	-	.05	93.6	83.3	88.5	11.4	86	99	112	134	157	205	254	325	351	394	.7	1.0
3	THIRD GRADE	3	61.0	.027	-	-	.06	91.8	83.2	87.5	8.6	100	120	129	143	157	194	240	344	379	424	1.2	.8
4	PREMIUM	6	55.1	.004	0	.001	.03	100.7	92.2	96.5	11.9	86	99	109	130	163	225	258	320	342	374	.7	1.9
4	THIRD GRADE	3	59.4	.027	2	.002	.04	93.6	83.4	88.5	10.3	90	106	119	143	164	216	266	332	359	410	1.0	1.3
4	THIRD GRADE	6	58.3	.022	-	-	.05	91.8	84.2	88.0	10.5	87	101	113	135	159	220	287	341	366	425	1.0	1.1
4	THIRD GRADE	6	61.0	.023	2	.011	.04	91.6	83.1	87.4	11.5	85	100	112	133	158	209	257	333	366	405	.9	1.3
4	THIRD GRADE	11	59.1	.025	1	.083	.04	92.6	83.9	88.3	11.8	85	98	110	133	160	215	267	328	352	383	.9	1.7
5	REGULAR	1	61.8	.042	2	-	.00	91.5	82.5	87.0	11.0	80	93	110	134	159	207	248	310	337	390	1.0	2.0
5	THIRD GRADE	5	61.3	.033	2	.021	.03	91.8	82.5	87.2	11.1	85	98	114	138	163	211	251	313	340	392	.8	1.1
5	THIRD GRADE	3	59.7	-	-	-	*	92.6	82.0	87.3	10.8	84	100	114	140	168	222	270	343	377	420	.7	1.3
5	THIRD GRADE	5	60.6	.041	2	.005	.03	91.9	82.2	87.1	11.9	86	96	108	127	151	208	274	354	385	426	.9	1.9
5	THIRD GRADE	4	60.0	.014	2	.092	.03	92.9	83.9	88.4	13.1	81	89	103	126	151	210	262	325	350	379	.9	2.0
6	THIRD GRADE	3	62.6	.056	2	.005	.01	91.8	82.8	87.3	11.6	87	102	113	133	154	204	246	313	341	386	1.0	1.5
6	THIRD GRADE	4	59.6	.049	1	.003	.02	92.7	82.7	87.7	10.7	86	103	116	141	172	226	270	342	375	420	1.2	1.4
6	THIRD GRADE	3	61.7	.022	1	.005	.05	91.4	84.0	87.7	11.0	91	105	117	138	165	212	255	326	359	409	1.0	2.0

TABLE 7. - MOTOR GASOLINE SURVEY, WINTER 1972-73
ANALYSES OF UNLEADED GASOLINE--CONTINUED

DISTRICT	GRADE	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	PHOS. G/GAL	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
7	THIRD GRADE	7	63.9	.033	3	.006	.01	91.7	82.5	87.1	11.2	85	101	113	134	157	203	244	314	347	387	.9	1.1
7	THIRD GRADE	6	60.6	.012	3	.020	.04	92.1	83.8	88.0	10.3	87	106	118	141	166	214	257	322	362	404	.9	1.9
7	THIRD GRADE	3	60.6	.017	-	-	.07	92.0	82.4	87.2	8.6	87	117	130	149	168	204	247	315	360	418	.9	1.1
8	PREMIUM	10	54.5	.005	-	-	.03	100.8	90.7	95.8	12.2	81	95	106	130	155	221	247	311	334	376	1.1	1.7
8	THIRD GRADE	7	59.6	.021	-	-	.00	93.3	83.6	88.5	9.8	90	104	119	140	161	206	256	324	351	395	.8	1.4
8	THIRD GRADE	1	55.5	-	-	-	.00	92.0	84.5	88.3	9.5	98	-	129	153	-	223	-	307	-	373	-	-
9	THIRD GRADE	3	68.6	.021	-	-	*	91.1	82.2	86.7	11.5	84	99	111	130	150	194	226	288	323	380	1.0	1.0
10	THIRD GRADE	6	60.9	.043	-	-	*	91.3	82.5	86.9	10.0	90	104	117	140	164	208	242	292	310	367	.8	2.0
12	THIRD GRADE	3	59.3	.010	1	.028	.05	91.6	84.4	88.0	8.0	98	115	127	144	161	210	261	324	353	402	.8	.8
13	THIRD GRADE	6	61.9	-	-	-	*	90.2	81.8	86.0	11.1	87	101	114	136	159	203	248	326	370	405	.9	2.7
13	THIRD GRADE	3	58.2	-	-	-	*	91.8	83.6	87.7	9.5	90	101	112	132	153	202	236	299	373	383	.8	3.2
13	THIRD GRADE	11	57.6	.060	1	.001	.03	91.1	82.8	87.0	7.5	99	121	135	159	183	221	270	336	372	412	.9	1.6
14	THIRD GRADE	3	69.0	-	-	-	*	91.2	82.6	86.9	11.8	88	101	120	136	155	193	227	286	329	376	2.0	1.0
14	THIRD GRADE	4	60.1	.012	1	.000	.04	91.4	83.2	87.3	7.8	100	120	135	159	180	218	264	319	351	397	.9	1.1
15	THIRD GRADE	3	56.9	.017	-	-	*	91.8	83.4	87.6	9.4	92	107	118	139	166	227	277	331	352	396	.8	1.2
15	THIRD GRADE	4	58.9	.015	1	.001	.02	91.8	82.9	87.4	7.6	97	119	130	150	169	210	250	320	354	415	.9	1.1
16	THIRD GRADE	4	57.2	.010	1	.025	.02	92.7	83.6	88.2	7.9	96	110	122	142	164	218	269	324	343	392	1.0	1.1
16	THIRD GRADE	5	59.5	.010	1	.004	.03	91.8	83.0	87.4	8.3	99	117	128	145	162	202	245	315	352	405	.9	1.1
17	THIRD GRADE	6	58.3	.020	1	.027	.01	92.2	84.1	88.2	8.9	96	114	127	146	166	219	272	324	347	393	1.2	.9
17	THIRD GRADE	7	58.0	.037	3	.014	.03	91.7	83.0	87.4	7.8	100	118	131	149	167	211	262	318	343	392	1.2	1.0
17	THIRD GRADE	6	53.9	.011	2	.014	.01	91.7	82.8	87.3	8.2	93	119	134	160	185	230	273	329	349	387	1.0	1.4

* None detected.

TABLE 8. - Cumulative percents of samples of all grades by research octane numbers by districts, motor-gasoline survey, winter 1972-73

Research octane number	District																	Cumulative total samples
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
88														0.3				1
89													0.5	.3				4
90		0.2											2.5	.3				16
91	3.9	2.7	1.9	1.9	3.0	1.2	1.7	1.4	1.9	1.6	0.7	3.0	9.4	3.1	4.0	4.0	5.6	159
92	6.5	4.4	4.6	7.9	9.8	6.2	8.0	4.3	18.1	20.4	9.3	7.3	27.4	14.3	10.4	8.6	13.4	520
93	7.7	6.6	6.0	11.1	12.3	8.6	10.7	12.2	46.7	44.0	28.0	12.8	37.3	27.2	27.7	13.2	16.2	880
94	24.5	23.3	32.4	32.2	28.1	28.4	34.7	42.6	49.5	51.3	47.4	39.7	46.7	43.6	48.6	29.9	31.9	1,805
95	44.5	49.7	50.2	56.0	55.7	51.9	52.3	51.1	49.5	51.3	51.6	52.1	52.7	48.8	52.0	52.3	55.1	2,551
96	54.8	54.9	53.9	58.3	58.7	57.4	54.3	56.0	52.4	53.4	52.9	58.1	55.3	51.9	56.6	58.0	59.3	2,740
97	55.5	56.1	56.0	60.9	59.1	58.0	57.0	56.5	52.4	54.5	53.3	58.1	65.8	53.7	56.6	58.6	59.7	2,849
98	55.5	56.3	56.2	60.9	59.1	58.0	57.3	57.1	54.3	56.0	56.1	59.0	67.6	64.1	57.2	59.2	59.7	2,911
99	55.5	61.1	58.1	65.7	67.7	73.5	64.3	59.4	81.0	90.1	78.5	64.1	83.3	80.8	64.2	66.1	66.7	3,388
100	93.5	94.4	92.7	95.4	97.4	96.3	100.0	97.4	100.0	99.0	99.0	99.1	99.5	100.0	100.0	100.0	96.8	4,795
101	98.7	99.5	98.8	99.5	99.1	100.0		100.0		100.0	100.0	100.0	100.0				100.0	4,916
102	99.4	99.8	99.8	100.0	100.0													4,928
103	100.0	100.0	100.0															4,931

TABLE 9. - Cumulative percents of samples of all grades by motor octane numbers by districts, motor-gasoline survey, winter 1972-73

Motor octane number	District																	Cumulative total samples
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
81				0.5 .5	0.4								0.4			1.1		2 7
82	0.6	0.3	0.2	.9	3.8	1.9	1.0	0.3	1.9	1.6			1.8	0.7		2.9	1.4	49
83	5.2	3.2	3.9	4.2	7.2	3.7	4.3	.9	2.9	3.1	0.3	0.4	4.3	3.1	3.5	5.7	6.9	178
84	5.8	6.8	6.6	9.8	11.1	6.8	7.3	3.4	2.9	4.7	1.0	3.4	8.9	7.7	4.0	10.3	14.4	344
85	8.4	8.4	6.8	13.3	11.9	7.4	9.7	7.4	39.0	22.5	4.2	7.7	23.9	23.0	4.6	27.6	44.0	711
86	15.5	16.9	12.9	21.4	26.8	21.0	19.7	15.1	48.6	40.3	24.6	12.4	43.5	41.1	12.7	41.4	54.2	1,284
87	43.9	46.3	42.1	50.7	54.0	47.5	46.0	42.0	51.4	50.3	48.4	41.0	50.9	50.5	39.9	53.4	58.3	2,353
88	54.2	54.9	52.1	61.4	59.1	54.9	55.7	54.8	52.4	51.3	51.6	55.1	54.7	52.6	54.3	58.0	59.7	2,720
89	56.1	56.3	55.0	61.4	59.1	55.6	56.7	56.5	52.4	51.8	52.9	58.5	60.1	54.0	55.5	58.6	59.7	2,805
90	58.1	58.1	57.5	62.1	59.1	56.8	57.0	58.2	52.4	53.9	53.3	59.0	64.3	60.3	56.6	60.3	60.6	2,897
91	67.1	64.0	61.0	63.7	60.4	60.5	59.3	61.6	54.3	55.5	54.7	62.8	72.1	73.2	68.8	76.4	77.3	3,181
92	94.2	89.7	84.2	79.1	75.7	75.9	80.0	80.7	63.8	78.5	65.7	77.8	83.3	85.7	85.0	98.3	96.3	4,069
93	99.4	99.5	98.8	97.4	91.1	92.6	96.3	97.2	83.8	95.3	85.8	93.6	91.3	99.0	96.5	100.0	100.0	4,715
94	100.0	99.8	99.6	100.0	98.3	98.1	100.0	99.4	93.3	98.4	93.8	95.3	93.8	100.0	100.0			4,844
95		100.0	100.0		100.0	100.0		100.0	98.1	100.0	96.9	98.3	97.3					4,900
96									100.0		99.0	100.0	99.8					4,926
97											99.3		100.0					4,928
98											100.0							4,930
99											100.0							4,930

TABLE 10. - Locations and numbers of samples, motor gasoline survey, winter 1972-73

State	Location	Samples
District 1 (Northeast)		
Maine	Portland	39
Massachusetts	Boston area	116
	2 locations	155
District 2 (Mid-Atlantic Coast)		
Connecticut	New Haven	4
D.C., Md., Va.	Washington area	13
Maryland	Baltimore	95
New Jersey and New York	New York City area	150
New York	Albany	30
Pennsylvania	Harrisburg	18
Pennsylvania and New Jersey	Philadelphia area	187
Virginia	Richmond	95
	8 locations	592
District 3 (Southeast)		
Alabama	Birmingham	82
	Mobile	30
Florida	Jacksonville	24
	Miami area	140
	Tampa	15
Georgia	Atlanta	127
North Carolina	Wilmington	41
South Carolina	Charleston	4
Tennessee	Chattanooga	19
	9 locations	482
District 4 (Appalachian)		
New York	Buffalo	109
Ohio	Cincinnati	105
	Cleveland	113
	Columbus	14
	Lima	1
Pennsylvania	Bradford	2
	Pittsburgh	88
	7 locations	432
District 5 (Michigan)		
Michigan	Central Michigan	3
	Detroit	218
	Northern Peninsula	14
	3 locations	235
District 6 (North Illinois)		
Illinois and Indiana	Chicago area	152
Iowa	Davenport	2
Wisconsin	Madison	8
	3 locations	162
District 7 (Central Mississippi)		
Indiana	Evansville	36
	Indianapolis	106
Kentucky	Louisville	79
Missouri and Illinois	St. Louis area	79
	4 locations	300
District 8 (Lower Mississippi)		
Arkansas	El Dorado	2
	Little Rock	87
Louisiana	Baton Rouge	35
	Lake Charles	2
	New Orleans	90
Mississippi	Jackson	17
Tennessee	Memphis	101
	Nashville	18
	8 locations	352
District 9 (North Plains)		
Minnesota	Minneapolis-St. Paul	87
North Dakota	Fargo	18
	2 locations	105
District 10 (Central Plains)		
Iowa	Des Moines	54
Kansas and Missouri	Kansas City area	83
Nebraska	Omaha	54
	3 locations	191
District 11 (South Plains)		
Kansas	Wichita	69
Missouri	Springfield	20
Oklahoma	Bartlesville	6
	Oklahoma City	3
	Tulsa	98
Texas	Dallas-Fort Worth	93
	6 locations	289
District 12 (Southern Texas)		
Texas	Houston	163
	Odessa	28
	San Antonio	43
	3 locations	234
District 13 (South Mountain States)		
Arizona	Phoenix	85
	Tucson	14
California	Bakersfield	24
Colorado	Denver	84
Nevada	Las Vegas	24
	Reno	24
New Mexico	Albuquerque	101
Texas	Amarillo	88
	El Paso	24
	Lubbock	24
Utah	Salt Lake City	60
	11 locations	352
District 14 (North Mountain States)		
Idaho	Boise	85
Montana	Billings	53
	Great Falls	6
Washington	Pasco	39
	Spokane	104
	5 locations	287
District 15 (Pacific Northwest)		
Oregon	Portland	32
Washington	Seattle	141
	2 locations	173
District 16 (Northern California)		
California	San Francisco Bay area	174
	1 location	174
District 17 (Southern California and Hawaii)		
California	Los Angeles area	195
	San Diego	11
Hawaii	Honolulu	10
	3 locations	216
Total	80 locations	4,931

District	Locations	Samples	Percent
1	2	155	3.1
2	8	592	12.0
3	9	482	9.8
4	7	432	8.8
5	3	235	4.8
6	3	162	3.3
7	4	300	6.1
8	8	352	7.1
9	2	105	2.1
10	3	191	3.9
11	6	289	5.9
12	3	234	4.7
13	11	552	11.2
14	5	287	5.8
15	2	173	3.5
16	1	174	3.5
17	3	216	4.4
Total	80	4,931	100.0

16
174
San Francisco
Bay area
Los Ang
area

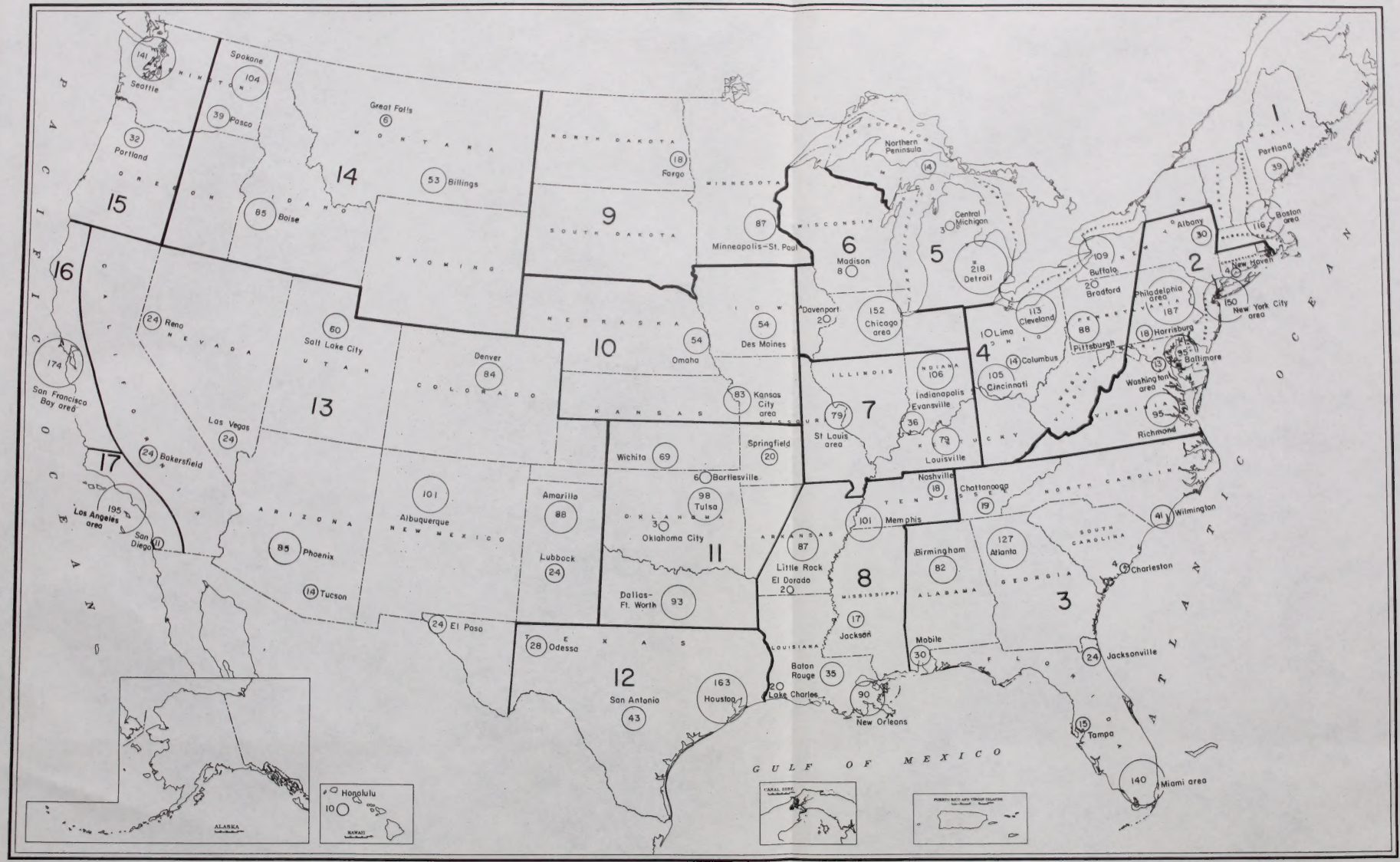


FIGURE 5.– Map Showing Location and Number of Samples for the National Motor Gasoline Survey, Winter 1972-73

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